Construction Completion Report
Water Distribution System Installation
Crosby Hill Mobile Home Park
Town of Volney, Oswego County, New York

Prepared for

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Prepared by

EA Engineering, P.C. and Its Affiliate
EA Science and Technology
269 W. Jefferson Street
Syracuse, New York 13202
(315) 431-4610

August 2021
Revision: FINAL
EA Project No. 1602503

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Megan Miller, Project Manager — 31 August 2021
EA Science and Technology — Date

Donald Conan, P.E., P.G. Project Engineer — 31 August 2021
EA Engineering, P.C. — Date

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CERTIFICATION

I, Donald Conan, certify that I am currently a New York State Registered Professional Engineer, I had primary direct responsibility for the implementation of the subject construction program, and I certify that the Interim Remedial Measure Design was implemented and that all construction activities were completed in substantial conformance with the Division of Environmental Remediation-approved Interim Remedial Measure Design.



Donald Conan, P.E.
New York State Professional Engineer No. 75666

Date 8/31/2021

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LIST OF ACRONYMS AND ABBREVIATIONS

BFP	Backflow prevention
CHMHP	Crosby Hill Mobile Home Park
EA	EA Engineering, P.C. and Its Affiliate EA Science and Technology
EPA	U.S. Environmental Protection Agency
ft	Foot (feet)
GES	Groundwater & Environmental Services, Inc.
HDPE	High-density polyethylene
in.	Inch(es)
IRM	Interim remedial measure
NCC	North Country Contracting, LLC
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
No.	Number
OCHD	Oswego County Health Department
OCWA	Onondaga County Water Authority
P.E.	Professional Engineer
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
P.G.	Professional Geologist
ppm	Parts per million
ppt	Parts per trillion
PSI	Pound(s) per square inch
WA	Work assignment

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ES. EXECUTIVE SUMMARY

EA Engineering, P.C. and its affiliate EA Science and Technology (EA), under contract to the New York State Department of Environmental Conservation Work Assignment Number D007624-42, was tasked to design and provide construction oversight of an interim remedial measure (IRM). The IRM included design and installation of a new water distribution system at the Crosby Hill Mobile Home Park located at 2667 New York State Route 3 in the Town of Volney, Oswego County, New York. The system was designed to serve a total of 69 residences and maintenance facilities in the Park. Work included connection to an existing 10-inch (in.) diameter Onondaga County Water Authority transmission line via an existing 8-in. diameter gate valve. Generally, the distribution system includes 600 ft of 8-in. diameter high-density polyethylene (HDPE) pipe, 3,000 ft of 3-in. diameter HDPE pipe, one fire hydrant, and one yard hydrant. The existing water supply wells contained per- and polyfluoroalkyl substances at concentrations near the U.S. Environmental Protection Agency health advisory level of 70 parts per trillion.

Construction took place from 23 September to 7 November 2019. The connection was made via an existing Onondaga County Water Authority connection point and 8-inch (in.) diameter gate valve for the new 8-in. diameter HDPE water main. A new meter was installed in an aboveground insulated enclosure with backflow preventor and meter bypass.

Site work for installation of new water distribution system included horizontal directional drilled 8-in. and 3-in. diameter HDPE distribution piping. 1-in. diameter HDPE service pipes were used for individual mobile home service lines. The services included meter coil setting pits with back flow check valves and pressure reducing valves included in the meter horn assemblies. Meter pits can be isolated via curb stops on either side of each meter pit. One meter pit was provided for each mobile home. The Site also includes a three-unit apartment house, which received individual water services entering into the heated basement space. Three separate meter horns were provided, one for each apartment. The Park's existing maintenance facilities and water treatment building also received water services for current or future use. A total of 69 services were installed.

Site work was conducted by Groundwater and Environmental Services, Inc. and their subcontractor, North Country Contracting, LLC.

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1. INTRODUCTION

EA Engineering, P.C. and its affiliate EA Science and Technology (EA) were tasked by the New York State Department of Environmental Conservation (NYSDEC) under Work Assignment (WA) Number (No.) D007624-42 for an interim remedial measure (IRM) design of a new water distribution system at the Crosby Hill Mobile Home Park. The system included connection to Onondaga County Water Authority (OCWA) public water supply to serve residences and maintenance facilities in the Park, for a total of 69 services.

1.1 SITE BACKGROUND

The Crosby Hill Mobile Home Park (CHMHP) is a private mobile home park located at 2667 State Route 3 in the Town of Volney, New York. The CHMHP has a capacity of 70 mobile homes and one multi-family dwelling that was served by primary and back-up/reserve private water supply wells. In October 2017, testing of the primary and reserve potable supply wells showed perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) near the health advisory level of 70 parts per trillion (ppt) for total PFOA and PFOS, high enough for the New York State Department of Health (NYSDOH) to recommend monitoring. In January and February 2018, NYSDOH and the Oswego County Health Department (OCHD) resampled the wells and observed similar concentrations. While the total concentration of PFOA and PFOS in the finished water had remained below 70 ppt, combined PFOA and PFOS concentrations in the back-up well (raw water) was measured at 72.8 ppt during the February 2018 event. The NYSDOH recommended that NYSDEC offer to provide treatment and/or an alternate water supply to the operator of the CHMHP. Based on this recommendation, NYSDEC determined that connection of CHMHP to an existing municipal water system was the most feasible option to expeditiously and cost effectively provide a source of potable water. Estimated water usage for the Crosby Hill Mobile Home Park per quarter is 900,000 to 1,000,000 gallons.

1.2 SUMMARY OF WATER DISTRIBUTION SYSTEM INSTALLATION ACTIVITIES

1.2.1 Water Distribution System Installation Objectives

The objective of the water distribution system installation project was to provide public water service connection and distribution to the CHMHP in accordance with the design drawings, provided as **Appendix A**, and ultimately abandon existing potable water wells serving the Park.

1.2.2 Water Distribution System Installation Organization and Summary

EA was the engineer for this water distribution system design, obtained required approvals from OCWA, OCHD, and NYSDOH, oversaw the installation and commissioning of the distribution system, and documented work completed with daily inspection reports.

The following contractors were involved in the completion of the water distribution system installation activities:

- Groundwater and Environmental Services, Inc. (GES) of East Syracuse, New York, was procured by NYSDEC from the state contractor standby list to complete water distribution system installation activities.

- North Country Contractors, LLC (NCC) of Calcium, New York, was subcontracted by GES to install the infrastructure associated with the distribution system, water service, and meter installation, testing, and restoration activities.

- Advanced Tree Services, of West Monroe, New York, was subcontracted by NCC to perform tree removal services.

- Kahrs Co., of Alexandria Bay, New York, was subcontracted by NCC to perform electrician services.

- Delta Geophysics of Catasauqua, Pennsylvania, was subcontracted by GES to perform underground utility detection services.

- C.T. Male Associates Engineering, Surveying, Architecture, Landscape Architecture & Geology D.P.C., of Syracuse, New York, was subcontracted by GES to perform land surveying services.

1.2.3 Report Organization

Section 2 of this report details the water distribution system installation field activities performed. Section 3 of the report includes a summary of disinfection sampling analytical data. The following items are included as appendixes to this report:

- **Appendix A—**Daily Inspection Reports
- **Appendix B—**Design Drawings
- **Appendix C—**Request for Quote and Addendum No. 1
- **Appendix D—**Meeting Minutes
- **Appendix E—**As-Built Drawings
- **Appendix F—**Water Supply Certification and Approval
- **Appendix G**—Backflow Prevention Device Report DOH-1013
- **Appendix H**—Completed Works Certification and Approval.

2. WATER DISTRIBUTION SYSTEM INSTALLATION ACTIVITIES

Site work associated with water distribution system installation was completed between 23 September and 7 November 2019. The following sections contain detailed descriptions of the water distribution system installation activities including any deviations from the original scope of work. Daily Inspection Reports are provided in **Appendix A**.

2.1 PROJECT DOCUMENTS

NYSDEC selected GES from the NYSDEC's list of approved standby contractors. Design drawings, provided as **Appendix B**, were developed based on data from the CHMHP owner, discussions with NYSDEC, NYSDOH, OCHD, OCWA, and Town of Volney. GES developed a request for quote and subsequent addendum, provided as **Appendix C**, to secure bids from multiple contractors. A pre-bid site meeting and walk were conducted with GES, EA, NYSDEC, the CHMHP owner, and prospective bidders on 29 May 2019. Bids were received, reviewed, and NCC was the apparent successful bidder and received a contract.

2.2 SITE MEETINGS

Prior to initiating site work, a pre-construction meeting attended by EA, GES, NCC, OCHD, NYSDOH, NYSDEC, and the CHMHP Owner was held on-site on 15 August 2019 to discuss the scope of work and scheduling. General field activities, construction schedule, and water disruption during service connections were discussed prior to and during all phases of construction on site. Weekly project meetings were conducted during construction. Full meeting minutes are provided in **Appendix D**.

2.3 SITE PREPARATION

2.3.1 Existing Utility Markout

GES contacted DigSafe prior to arriving on site for construction activities, and existing utilities along New York State Route 3 were located and marked. GES contracted with Delta Geophysics of Catasauqua, Pennsylvania, to locate existing underground utilities within the CHMHP. Existing electrical, cable television, sanitary sewer, and water lines were located from 23 to 26 September 2019 via soft excavation and/or ground penetrating radar. Following markout, a map was prepared showing the approximate location of utilities on site and was made available by GES on site personnel and utilized during NCC horizontal drilling and trenching activities.

2.3.2 Erosion Controls

During excavation activities, a temporary silt fence/silt sock was installed adjacent to all spoil pile storage areas. The silt fence was installed to prevent the transport of excavated soil and sediment from stockpiles on the site.

2.3.3 Tree Clearing

GES contracted with Advanced Tree Service of West Monroe, New York, for cutting down trees, chipping branches, and grinding tree stumps that conflicted with proposed pipe locations, or as required for directional drilling or open excavations for the new water distribution system. A total of 14 trees were cut using chainsaws and bucket trucks. A chipper was used to process branches and brush with up to a 6-inch (in.) diameter. A Bobcat skid steer was used to load and remove tree trunks and limbs with greater than a 6-in. diameter while chipped debris was stockpiled on the site for future use as landscaping mulch.

2.4 CHANGES TO DESIGN

All changes made to the design of the water distribution system are captured in the as-built drawings, provided as **Appendix E**.

2.4.1 Modifications to Layout

Generally, the distribution system was installed per the design drawings. Minor modifications to horizontal pipe alignment were made during construction due to accessibility of the Vermeer D36x50 Navigator horizontal drilling machine or the proximity of the mobile home structures adjacent to connection points as indicated on the design drawings. Final connections of water lines between the rows of mobile homes are as noted on the as-built record drawings, provided as **Appendix E**.

2.4.2 Changes to Individual Connections

The connections beneath the individual mobile homes were made between the new 1-in. diameter HDPE pipe and existing mobile home piping. The new 1-in. lines extended from below grade, through the bottom of a 5-gallon plastic bucket installed upright and flush with the ground surface. A new 1-in. ball valve shut-off was installed in the bucket with insulation above. An electric heat trace wire was installed under pipe insulation jacket on the waterline between the bucket and the underside of the existing home.

2.4.3 Other Changes

An 8-in. diameter gate valve was installed upstream of the Kennedy fire hydrant on Water Main ‘A’ in lieu of the 3-in. diameter gate valve in the original design. The 8-in. diameter gate valve was installed to eliminate the 3-in. by 8-in. diameter reducer and 3-in. gate valve to shorten the installed length of the assembly and keep the valve box away from areas, which would typically be plowed for snow removal in the winter.

In addition, to reduce heating costs in the hot box, GES installed a heat trace and insulation on the pipes within the hot box.

2.5 INSTALLATION OF WATER DISTRIBUTION SYSTEM MAINS

2.5.1 Public Water Main Tap

OCWA provides public water to portions of Oswego County. An existing OCWA watermain is located along New York State Route 3, which fronts the CHMHP. NCC connected a new 8-in. HDPE pipe to an existing 8-in. gate valve on 7 October 2019, for the new connection.

2.5.2 Main Water Distribution Piping

The 3-in. and 8-in. diameter HDPE main distribution piping was installed via horizontal directional drilling from 23 September to 4 October 2019. As shown in the as-built drawings (**Appendix E**), Water Main 'A', the 8-in. diameter HDPE mainline, which runs north from the metering assembly, along the western property line of the parcel serves as the main supply header pipe feeding water to five individual 3-in. diameter HDPE lines and the fire hydrant. The 3-in. diameter HDPE branch lines were installed to serve individual rows of existing mobile homes in the Park. Gate valves were installed on each new water main, as shown on the as-built drawings, provided as **Appendix E**. Each gate valve has a cast iron valve box, screw type allowing for adjustment to the proper grade, and covers marked "Water".

2.5.3 Hydrant Installation

Two new hydrant assemblies were installed as part of this project. A Kennedy K81D 5 foot (ft)-6 in. bury fire hydrant assembly was installed on 9 October 2019 at the end of Water Main 'A'. Water pressure recorded at the fire hydrant was 38 pounds per square inch (PSI), at 8:30 a.m.

A Woodford Model S4H yard hydrant was installed on 1 October 2019 at the end of Water Main 'G'. The yard hydrant on Water Main 'G' is primarily for owner use, if required for flushing.

Both hydrants should be exercised annually to maintain proper operation.

2.5.4 Pressure Testing, Disinfection, and Certification of Mains

An NCC Technician conducted the filling, flushing, and disinfection process from 10 to 15 October 2019. Before pressure testing, the line was filled with water from the OCWA water line off of New York State Route 3. All lines were flushed systematically from Water Main 'A', down each secondary water main to Water Main 'G' and out through the fire hydrant on the end of Water Main 'A'. Flows were maintained a 2.5 ft per second or greater to ensure the lines were properly scoured. Upon completion of the flushing, the NCC Technician prepared for hydrostatic pressure testing procedures in accordance with ASTM International F2164.

Hydrostatic pressure testing of new HDPE lines involves putting the pipe under pressure to allow for expansion of the HDPE pipe until the pressure becomes stable. Pumping to establish testing began at 11:00 a.m., using a gas-powered high-pressure pump to fill the water mains up to 150 PSI. As the HDPE expanded, the pressure would drop, and the lines were pumped up to 150 PSI.

At 12:30 p.m., it was observed that the hydrostatic pressure had stabilized at 150 PSI. The pressure was reduced to 140 PSI and the 1-hour test period began. At 1:30 p.m., the pressure was measured to be 140 PSI and the test was concluded.

On 11 October 2019, NCC began injection of the chlorine solution for disinfection in accordance with American Water Works Association C651-14. A barrel of 100 parts per million (ppm) chlorine and water solution was injected into water mains in a port on the 8-in. diameter HDPE main immediately downstream of the metering/backflow preventer assembly. Several 1-in. diameter corporation stops intended for new service lines were installed and extended above grade for verifying the initial chlorine residual for disinfection, and subsequent sampling purposes during/after the disinfection process. Samples collected from the 1-in. ports were analyzed to ensure all sections of the water mains received dosage of the 100 ppm solution through the entire system, for initial disinfection dosage. The dosage of chlorine solution water entering the pipe or structure was between 50 and 100 ppm. All valves on the new mains were opened and closed during the chlorination process to ensure all surfaces contacted the chlorine solution.

On 14 October 2019, NCC verified chlorine levels after the 60+ hour disinfection period. Samples collected from the 1-in. ports on 14 October 2019 contained approximately 70 ppm of chlorine residual remained in the water mains. Two sets of samples were collected 24 hours after the initial sample collection to verify that chlorine concentrations remained greater than 25 ppm, per American Water Works Association C651-14.

On 15 October 2019, NCC flushed the elevated chlorinated water and collected samples from four locations; Water Main ‘A’ at the fire hydrant adjacent to mobile home A-12, Water Main ‘B’ from tap adjacent to mobile home A-2, on Water Main ‘C’ from tap adjacent to mobile home A-4, and Water Main ‘D’ from tap adjacent to mobile home A-8. NCC flushed all water mains and secured the piping until sampling and certification process was completed.

Pressure testing and disinfection results were provided to the OCHD on 24 October 2019. Approval was received on 25 October 2019 and is provided in **Appendix F**.

2.5.5 Main Meter and Backflow Prevention Device Installation

After connection to the OCWA main, on 8 October 2019, NCC installed a riser to an above-grade meter and backflow prevention (BFP) device assembly before transitioning below grade to feed the 8-in. diameter HDPE Water Main ‘A’. A concrete slab-on-grade, and an insulated and heated enclosure manufactured by Hydrocowl, Inc. were installed under and around the assembly on 29 October and 4 November 2019, respectively. The assembly includes a 6-in. Sensus OMNI F2 meter, Watts 957 reduced pressure zone BFP, and meter bypass piping system. The Report on Test and Maintenance of Backflow Prevention Device, form DOH-1013, was submitted to OCWA on October 29, 2019 (**Appendix G**). Annual maintenance of the meter assembly and annual recertification of the reduced pressure zone BFP is required.

2.6 INSTALLATION OF INDIVIDUAL SERVICES AND STARTUP

Individual meter pits were installed following pressure testing and disinfection of the water mains from 10 to 28 October 2019. Mobile homes were connected to public water after all meter pits had been installed and the mains had been approved by OCHD. The approval was received from OCHD on 24 October 2019; connections were completed from 29 to 31 October 2019.

2.6.1 New Water Service Taps and Meters

NCC began excavating, tapping the HDPE water mains and installing 1-in. diameter HDPE service lines to individual meter pits at each mobile home starting on 10 October 2019. Depths of cover over all new piping was a minimum of 4 to5 ft. New meter pits were 72-in. coil setting type with metering horn provisions to accommodate the installation of ¼ turn shut-off valve, pressure reducing valve, back-flow preventer check valve, curb stops on either side of the meter pit, and new Neptune water meter body with radio sending unit for remote reading capabilities. New Neptune water meters were provided by GES. Installation of meters was completed on 28 October 2019.

2.6.2 Pressure Adjustments

Mobile homes were connected to the new water service between 29 and 31 October 2019. Following initial connection of the new services, reports of low-water pressure were received from residents in the CHMHP. NCC returned to each meter pit and adjusted the pressure reducing valves on the meter assemblies to increase pressure from the factory settings.

2.7 FINAL COMPLETION

2.7.1 Water Distribution System Completion

The water distribution system was completed when all services within the Park were on public water and pressure adjustments were complete on 7 November 2019. The completed work was certified by a Professional Engineer on 14 November 2019, and approved by OCHD on 19 November 2019; the certificate and approval are provided as **Appendix H**. NCC demobilized from the site on 7 November 2019.

2.7.1.1 Dry Well Repair

A previously unmarked septic system drywell behind the maintenance garages at the front of the Park just off of Route 3 was damaged from being run over by heavy equipment during water distribution system construction activities. Drywell repair work was completed by TREC Environmental Inc. (TREC), subcontracted by GES on September 21 to 24, 2020. The damaged drywell was filled with stone, and a new concrete drywell was installed directly adjacent to it. The area was restored with topsoil and seed. A photo log of the repair and restoration and cutsheets of the drywell are provided in **Appendix I**.

2.7.1.2 Potable Well Abandonment

Five groundwater wells formerly used for the potable water supply were abandoned by Amber Well Drilling, subcontracted by GES on February 19, 2020. Three wells were stick-up construction, and two of the wells were in vaults. All wells were filled with bentonite chips to approximately three ft below grade. Well PVC was cut down to 2.5 ft below grade and capped. The vaults were filled with sand to grade. The concrete covers of the vaults were removed, and the surface was restored during restoration activities discussed in section 2.7.1.3. Well abandonment logs, locations of wells, and a photo log of the well abandonment activities is provided in **Appendix J**.

2.7.1.3 Restoration

Areas disturbed by water distribution system installation construction activities were restored with topsoil, seed, and mulch by TREC. A composite of five samples of the topsoil source was collected by GES and analyzed for contamination via EPA SW-846, the full list of perfluoroalkyl and polyfluoroalkyl substances (PFAS) via EPA Method 537.1 (modified), and 1,4 dioxane via EPA Method 8270 by Eurofins Scientific, an Environmental Laboratory Approval Program-certified laboratory also certified for PFOA and PFOS drinking water analysis; a single grab sample was analyzed for volatile organic compounds. Results of these analyses were compared against appropriate criteria and the topsoil was approved for use. Analytical results are provided in **Appendix K**.

Topsoil was placed in disturbed areas to a maximum depth of 6 inches by TREC on August 11 to 18, 2020. Seed and mulch were applied, and restored areas were watered, as necessary. Additional seed was applied to select areas following drywell repair activities on September 23, 2020. On September 24, 2020 washed stone was also placed between the garages near the entrance to the park as well as from the eastern garage to the nearest interior park driveway. TREC demobilized from the site September 24, 2020. Documentation from restoration activities is included in **Appendix I**.

2.7.2 As-Built Survey

An as-built survey was completed by C.T. Male in December 2019, which documented the final layout of the distribution system. The as-built drawings, which include the surveyed final layout of the distribution system are provided as **Appendix E**.

Appendix A

Daily Inspection Reports

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DAILY INSPECTION REPORT

Report No. 001 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 09/23/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Clouds, rain	AM	Clouds, heavy rain	PM
Temperature	73° *f*	AM	76° *f*	PM
Wind Direction	WSW, 5-10 MPH	AM	WSW, 5-10 MPH	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed directional drilling and HDPE fusion safety. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	4:30 PM

Contractor and subcontractors arrived on site, walked the work area w/ North Country Contracting (NCC) directional drill crew, three workers. GES had two employees on site and a Subcontractor performing underground utilities location services. Met to review health and safety plan, and NCC reviewed drill safety and HDPE pipe fusion and handling safety. Crew setup to drill Line 'E' at the north side of the project site, drilled bore rods out to station 4+00 +/- but lost bore fluid flow, crew daylighted bore head, removed steering head and installed reamer and pulling head. Contractor pulled 3" ø HDPE back to station 0+00 and removed all rods to relocate machine to south side of the site. One other operator has been fusion HDPE pipe in support of this operation. GES coordinated interaction with the public, provided Maintenance & Protection of Traffic (M&PT) signs, and are directing their underground locator to areas requiring layout. Rain intensified at 4:15 PM so the Contractor secured his equipment and materials at tomorrow's work locations and ended for the day.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Tanner Sullivan	North Country Contracting	Foreman / Operator	9
Marty Jones	NCC	B Operator	9
Ken Burns	NCC	Laborer	9
Scott McDonald	GES		
Chad Hill	GES		
Mike Mesons	Delta Geophysics	Underground utility locator	

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Vermeer D36x50 Navigator drill	North Country Contracting	1	8
Astec FM330 boregell pump	"	1	8
HDPE pipe fusion machine	"	1	6
7000 Kw generator	"	1	6
Caterpillar 304E trackhoe	"	1	5
Caterpillar 420it rubber tire backhoe	"	1	2
Caterpillar 416it rubber tire backhoe	"	1	0

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
3" ø HDPE pipe	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

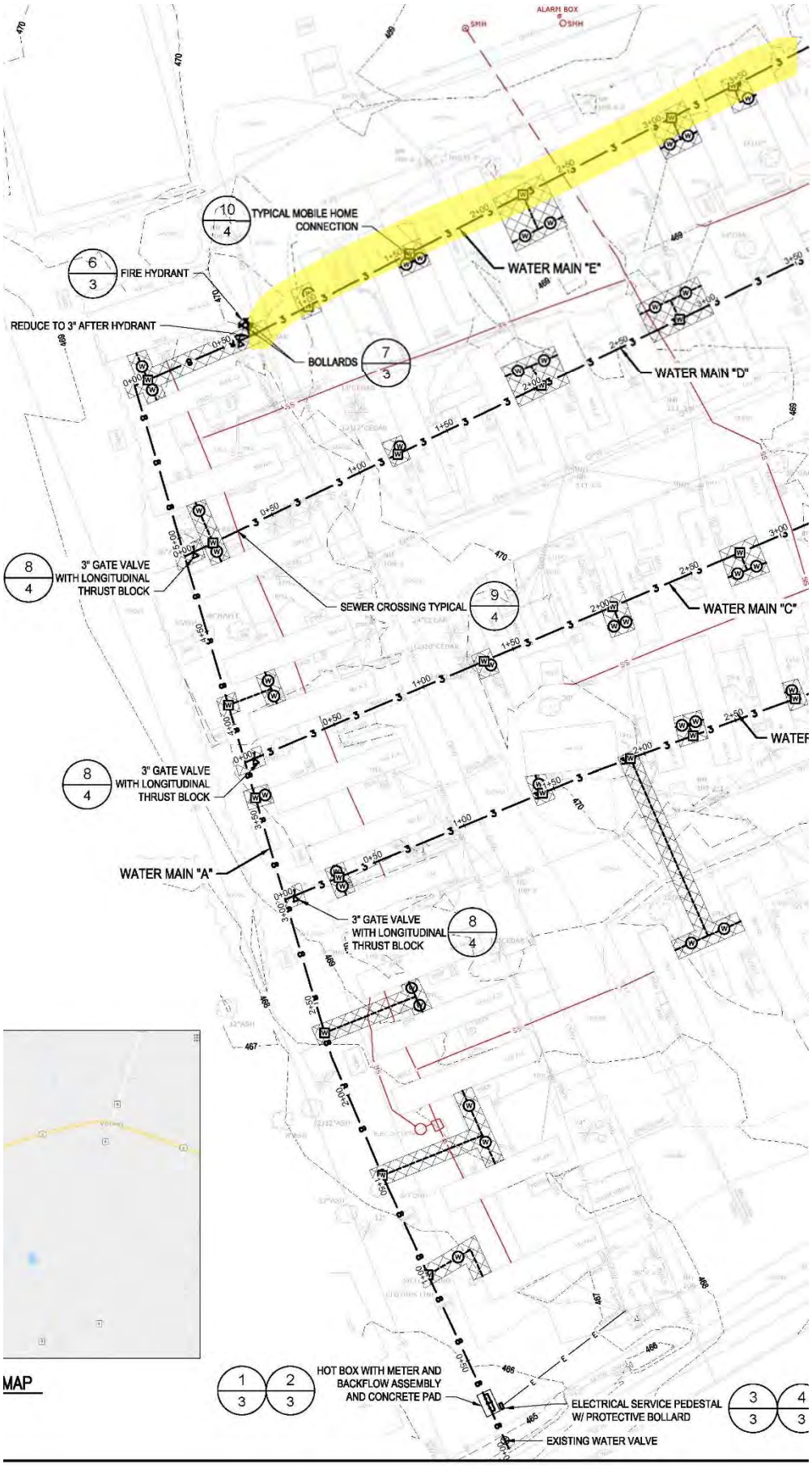
Visitors to Site

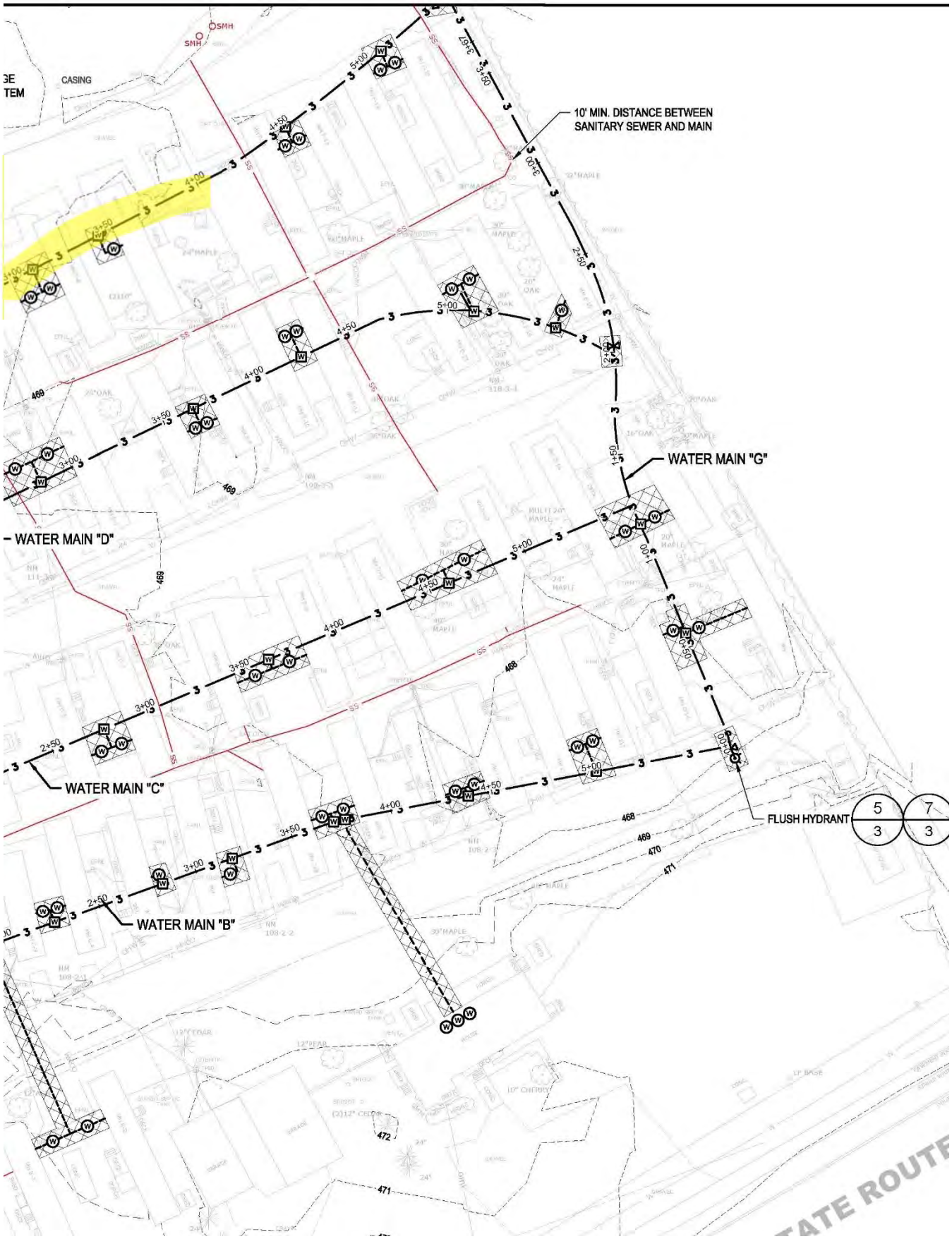
Name	Representing	Entered Exclusion/CRZ Zone	
		✓ Yes	No
		✓ Yes	No
		✓ Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

Project Schedule Comments

Issues Pending

Interaction with Public, Property Owners, Media, etc.


ALARM BOX
SMH
SHH
10/4 TYPICAL MOBILE HOME CONNECTION
6/3 FIRE HYDRANT
REDUCE TO 3" AFTER HYDRANT
BOLLARDS 7/3
WATER MAIN "E"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "A"
8/4 3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK
SEWER CROSSING TYPICAL 9/4
MAP
1/3 2/3 HOT BOX WITH METER AND BACKFLOW ASSEMBLY AND CONCRETE PAD
ELECTRICAL SERVICE PEDESTAL W/ PROTECTIVE BOLLARD
3/3 4/3
EXISTING WATER VALVE


10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
5
3
7
3
CASING
SMH
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472

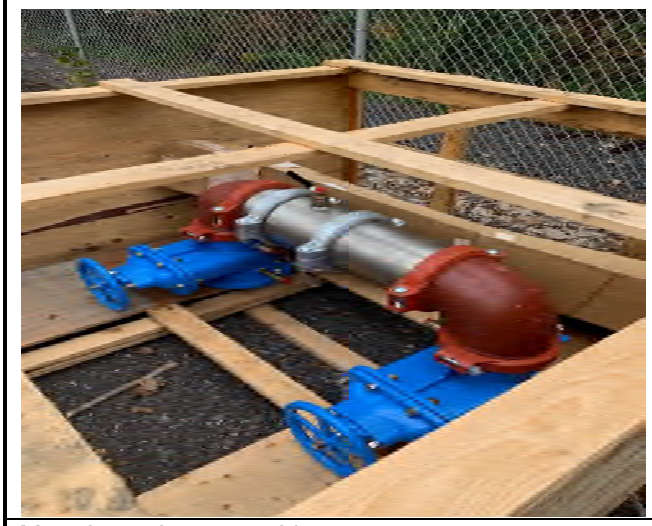
Site Photographs (Descriptions Below)



NCC Crew truck and Vermeer drill, boring for "E" line.



HDPE pipe fusion equipment, gas powered generator.



Metering valve assembly.



Stored meter pits and miscellaneous pipe materials.



Meter pits in storage.

Comments	
Site Inspector(s): Steven Van Arnam	**Date: 09/23/2019**

DAILY INSPECTION REPORT

Report No. 002 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 09/24/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Cloudy, lite rain	AM	Cloudy	PM
Temperature	57° *f*	AM	67° *f*	PM
Wind Direction	SW, 5 MPH	AM	SW, 5-10 MPH	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed directional drilling, HDPE fusion safety, and pipe handling. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	5:00 PM

Contractor and subcontractors arrived on site, Chad Hill with GES conducted daily safety meeting, NCC has three workers, and Delta Geophysics has two employees on site, they are the subcontractor to GES performing underground utility location services in Crosby Hill Mobile Home Park. All met to review health and safety plan, NCC reviewed directional drill safety, pipe handling safety, and HDPE pipe fusion safety. Crew setup to drill Line 'G' at the southeast side of the project site, drilled bore rods out to station 4+00 +/-, and they daylighted bore head, removed steering head and installed reamer and pulling head to pull back in the new 3" ø HDPE. One other operator has been fusing the HDPE pipe in support of the drilling operation. At 10:15 AM the drill crew began pulling HDPE and completed 'G' line 3" ø HDPE install back to station 0+00 at 12:00 noon. GES coordinated interaction with the public, provided Maintenance & Protection of Traffic (M&PT) signs, and are directing their underground locator to areas requiring layout. After breaking for lunch NCC setup the Vermeer directional drill at Line 'B' sta. 5+60 +/- and drilled steel rods back towards Sta. 0+00. After pushing rods and daylighting at 0+00, they began to mix bore fluid for pull back and the mix pump on the fluid tank broke down preventing proper mixing of fluid. NCC ended for the day, secured all areas impacted by drilling, marked fused sections of pipe on the ground, and ended for the day leaving at 5:00 PM. GES left at 5:00 PM and Delta Geophysics left at 3:30 PM.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Tanner Sullivan	North Country Contracting	Foreman / Operator	9.5
Marty Jones	NCC	B Operator	9.5
Ken Burns	NCC	Laborer	9.5
Chad Hill	GES	Forman	10
Mark Maseros	Delta Geophysics	Locator	8
Brad Moore	Delta Geophysics	Locator	8

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Vermeer D36x50 Navigator drill	North Country Contracting	1	9
Astec FM330 boregell pump	"	1	8
HDPE pipe fusion machine	"	1	8
7000 Kw generator	"	1	8
Caterpillar 304E trackhoe	"	1	5
Caterpillar 420it rubber tire backhoe	"	1	2
Caterpillar 416it rubber tire backhoe	"	1	0
International Vacuum truck	"	1	4

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
3" ø HDPE pipe	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

Project Schedule Comments

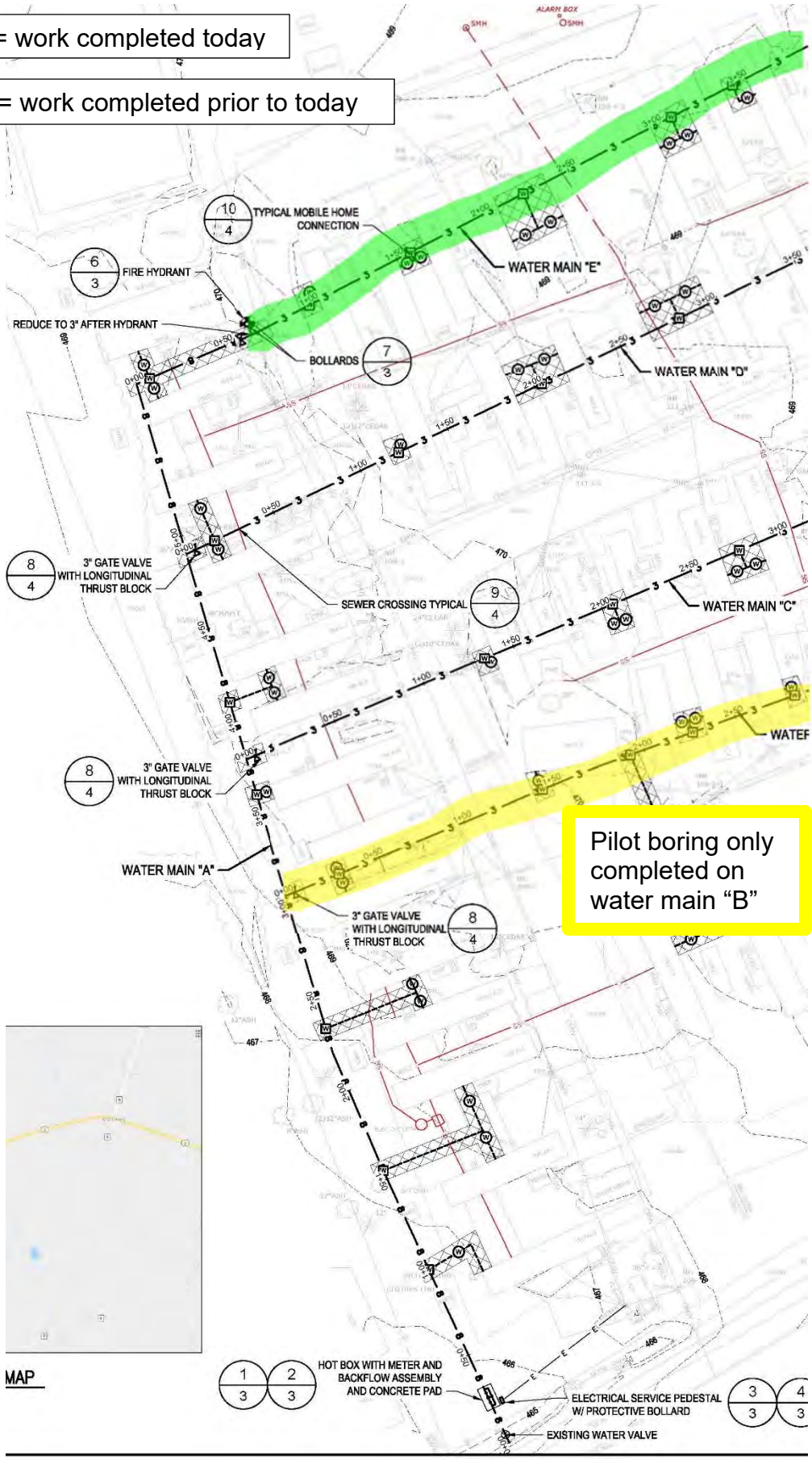
Issues Pending

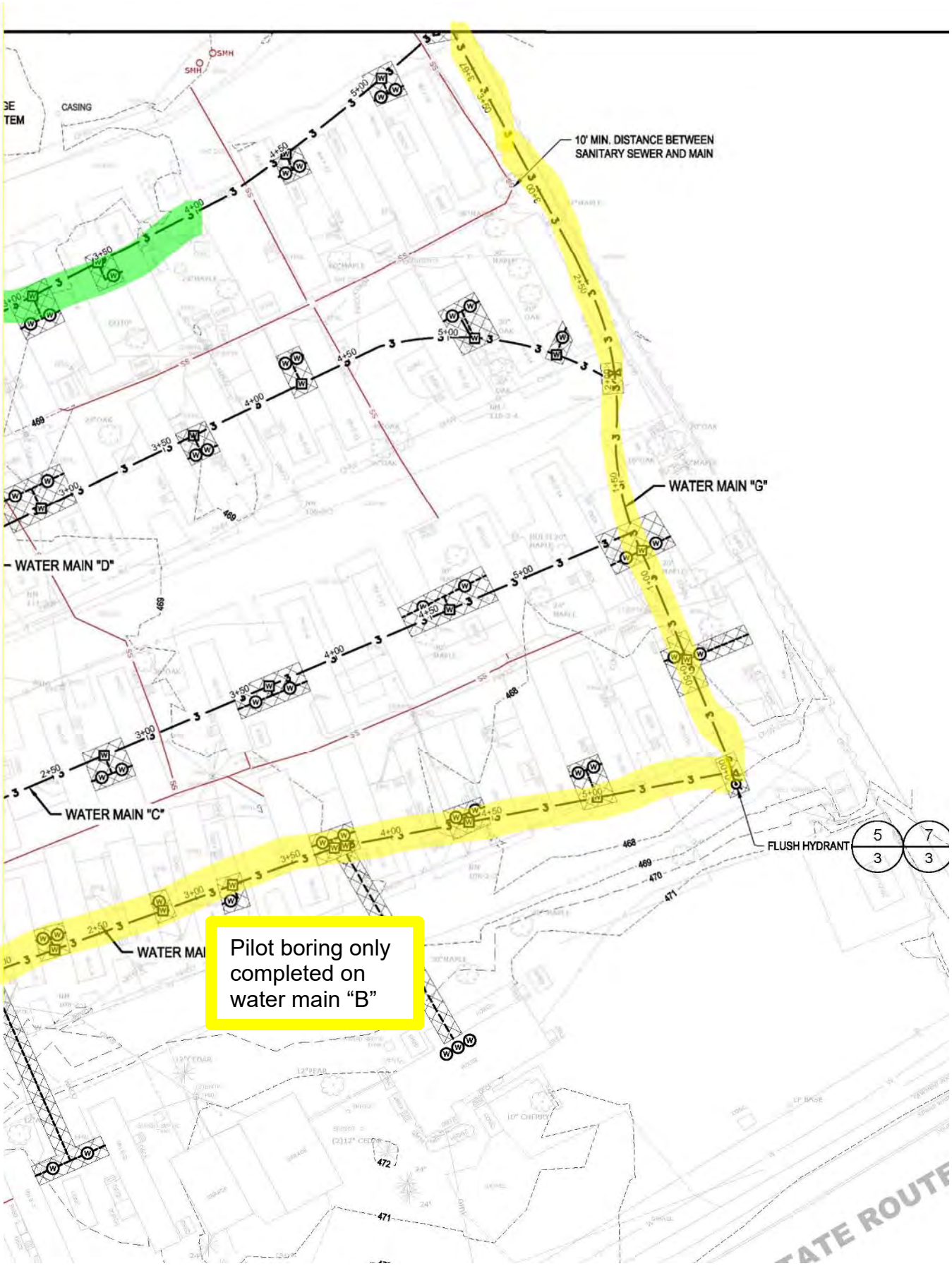
Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

= work completed today

= work completed prior to today




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
FLUSH HYDRANT
Pilot boring only completed on water main "B"

Site Photographs (Descriptions Below)



NCC Vermeer drill & fluid tank, boring for “B” line.



Caterpillar rubber tire backhoe supporting drilling.



Delta Geophysics utility mark out for GES \ NCC.



Initial insertion of steering head, bore for Line ‘B’.



Pipe exiting ground behind traffic cone, this is ‘G’ Line.



Penetration excavation, assist bore insertion and controls bore fluid frac out for vacuum extraction.

Comments	
Site Inspector(s): Steven Van Arnam	**Date: 09/24/2019**

DAILY INSPECTION REPORT

Report No. 003 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 09/25/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Clear, Sunny	AM	Sunny	PM
Temperature	47° *f*	AM	70° *f*	PM
Wind Direction	Calm	AM	SW, < 10 MPH	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed directional drilling, HDPE fusion safety, and pipe handling. All signed the Health & Safety Plan (HASP) sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	5:00 PM

Contractor and subcontractors arrived on site, Chad Hill with GES conducted daily safety meeting, NCC has three workers, and Delta Geophysics has two employees on site again today performing underground utility location services for GES in Crosby Hill Mobile Home Park. All present met to review health and safety plan, NCC reviewed directional drill safety, pipe handling safety, and HDPE pipe fusion safety- everyone signed in on the HASP. NCC crew moved the fused HDPE pipe into place to pull the pipe in at Line "B". They are also installing the tracer wire as required. The crew removed steering head and installed pulling head to pull back in the new 3" ø HDPE, and by 10:15 AM the line was completed. They used the vacuum truck to remove bore fluid from the insertion point bore pit and cleaned the area. They then moved the Vermeer directional drill to the end of the third access drive in the park to drill Lines 'C' & 'D'. Meanwhile one other Operator is continuing to fuse 3" ø HDPE pipe ahead of the drilling operation. The drill crew began pushing rods for HDPE install on 'D' line, a resident's vehicle was in the way of 'C' Line and couldn't be reached to move the vehicle. They began pushing rods for 'D' line at 1:15 PM, they are at station 5+60, boring to sta. 0+00. GES coordinated interaction with the public, provided Maintenance & Protection of Traffic (M&PT) signs, and are directing their underground locator to areas requiring layout. Today GES Safety Officer, Mark Lancaster, was on site as well. NCC drilled out for Line 'D' from sta. 5+60 +/-, to Sta. 0+00, completing the push at 4:15 PM. They daylighted at sta. 0+00, marked the area with cones, used the vacuum truck to clean bore fluid at both ends of the line, and ended work for the day. They secured all areas impacted by drilling, secured fused pipe sections prepared and stored on the ground for tomorrow, and left at 5:00 PM for the day. GES left at 5:00 PM and their subcontractor Delta Geophysics left at 3:30 PM.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Tanner Sullivan	North Country Contracting	Foreman / Operator	9.5
Marty Jones	NCC	B Operator	9.5
Ken Burns	NCC	Laborer	9.5
Chad Hill	GES	Forman	10
Mark Maseros	Delta Geophysics	Locator	8
Brad Moore	Delta Geophysics	Locator	8
Scott McDonald	GES	Project Manager	6
Mark Lancaster	GES	Safety Officer	5

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Vermeer D36x50 Navigator drill	North Country Contracting	1	9
Astec FM330 boregell pump trailer	"	1	8
HDPE pipe fusion machine	"	1	9
7000 Kw generator	"	1	9
Caterpillar 304E track hoe	"	1	9
Caterpillar 420it rubber tire backhoe	"	1	4
Caterpillar 416it rubber tire backhoe	"	1	0
International Vacuum truck	"	1	5
GMC enclosed drill tank & fluid pump	"	1	9

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
3" ø HDPE pipe	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

Project Schedule Comments

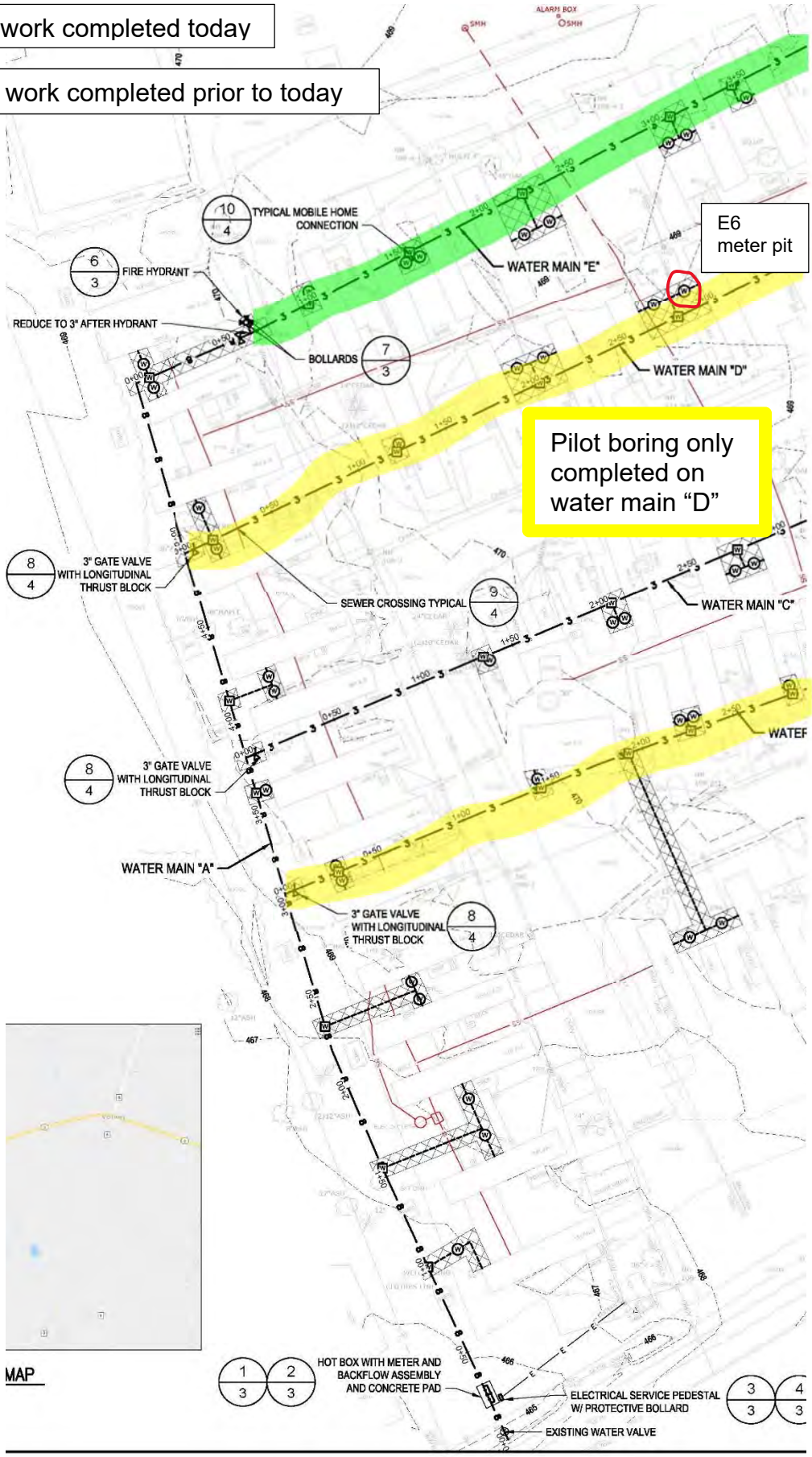
Issues Pending

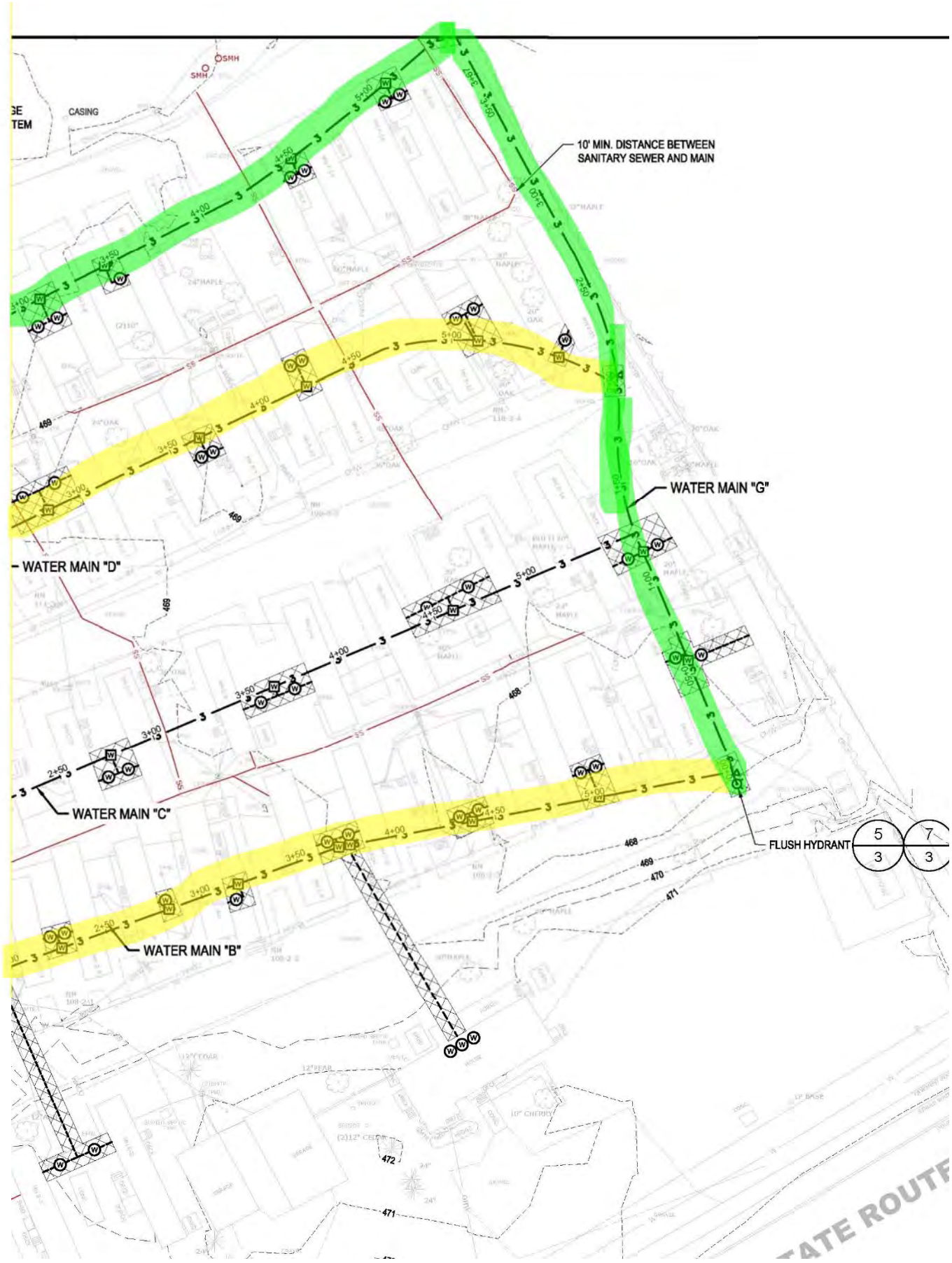
Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities. Today we were advised that meter pit at mobile home lot E6 requires a revised location due to a sub-surface issue. Minor issue, Contractor was advised, and ample room is available to accommodate the matter.

= work completed today

= work completed prior to today




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
5
3
7
3
SMH
CASING

Site Photographs (Descriptions Below)



NCC Vermeer drill pulling back 3” HDPE for “B” line.



Caterpillar rubber tire backhoe used for HDPE fusing.



NCC generator for pipe fusing.



3” ø HDPE for fusing into secondary mainline pipe.



Crosby Mobile Home Park, Line ‘B’ sta. 5+50 +\-, drill pulled pipe into place from here.



Vacuum truck used for bore fluid extraction during drilling operation and afterwards for site cleanup.

Comments	
Site Inspector(s): Steven Van Arnam	**Date: 09/25/2019**

DAILY INSPECTION REPORT

Report No. 004 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 09/26/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Cloudy, lite rain	AM	Clouds, rain	PM
Temperature	62° *f*	AM	66° *f*	PM
Wind Direction	Calm	AM	Calm	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed directional drilling, HDPE fusion safety, and pipe handling. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	6:00 PM

Contractor and subcontractors arrived on site, Chad Hill with GES conducted daily safety meeting, NCC has three workers, and Delta Geophysics has one employee on site, they are continuing underground utility location services on site. All met to review health and safety plan, NCC reviewed their activities as well and all signed in. Drill crew (Operator & Laborer w/ drill locator) are setup to pull Line 'D' from Line 'A' to Line 'G'. They used Caterpillar 304 track hoe to move fused HDPE pipe into place, mixed bore fluid for pull back, and began pulling the line in at 9:00 AM. Rain began, heavy at times at 9:30 AM. GES Continues to coordinate with the public, perform M&PT, and coordinate the underground utility locator with their work. The locator will complete work today, weather permitting. At 11:15 the drill crew completed pulling 3" HDPE pipe for Line 'D' and moved to drill out for Line 'C', starting at Line 'G'. The crew mixed a bore fluid tank and began pushing steel rods for Line 'C'. One Worker continues to fuse HDPE, all 3" pipe is fused and the 8" HDPE mainline was completed today as well. Rain ended today at 1:30. NCC continued drilling until 5:00 PM, then encountered steering issues at station 1+00, they excavated with Cat 304 track hoe and used bucket to assist with steering the spoon head on the drill rods. Rain began at 5:30 PM. After some effort by the drill operator they were able to steer the rods along the correct path, installed one more drill rod and ended for the day. They secured all areas impacted by drilling, marked fused sections of pipe on the ground, and ended for the day leaving at 6:00 PM. GES left at 6:00 PM and Delta Geophysics left at 3:30 PM.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Tanner Sullivan	North Country Contracting	Foreman / Operator	10.5
Marty Jones	NCC	B Operator	10.5
Ken Burns	NCC	Laborer	10.5
Chad Hill	GES	Forman	10.5
Mark Maseros	Delta Geophysics	Locator	8

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Vermeer D36x50 Navigator drill	North Country Contracting	1	10.5
Astec FM330 boregell pump	"	1	10.5
HDPE pipe fusion machine	"	1	10
7000 Kw generator	"	1	10
Caterpillar 304E track hoe	"	1	6
Caterpillar 420it rubber tire backhoe	"	1	5
Caterpillar 416it rubber tire backhoe	"	1	0
International Vacuum truck	"	1	4

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
3" ø HDPE pipe	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

Project Schedule Comments

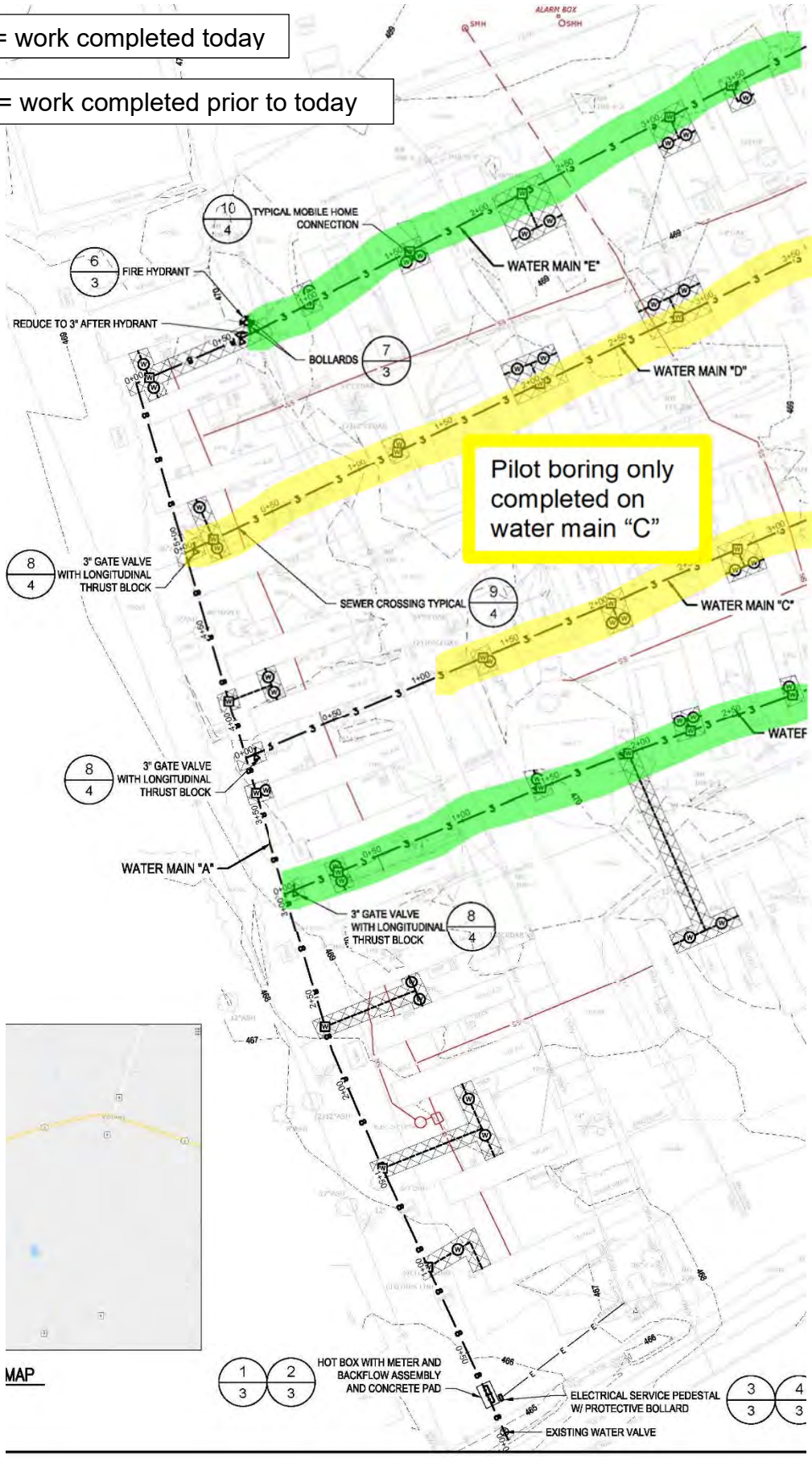
Issues Pending

Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

= work completed today

= work completed prior to today




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
5
3
7
3
CASING
SMH

Site Photographs (Descriptions Below)



NCC setting up to fuse 8” ø HDPE pipe.



Fusing machine, hot plate, and generator.



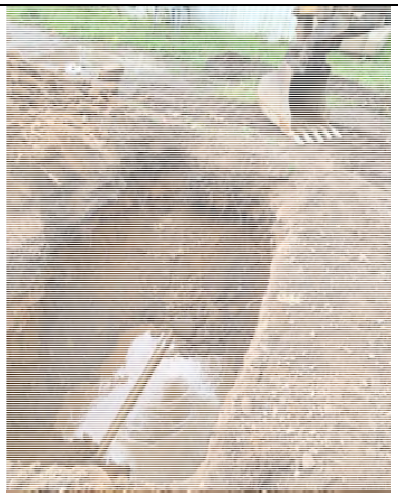
Placing HDPE pipe with backhoe.



8” ø HDPE is for Line ‘A’.



Pipe in fusing machine, Contractor will fuse on a pulling head first, 40’ lengths of HDPE.



Bore rod in excavation, used bucket of excavator to assist with proper alignment of bore rods.

Comments	
Site Inspector(s): Steven Van Arnam	**Date: 09/26/2019**

DAILY INSPECTION REPORT

Report No. 005 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 09/27/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Clear, sunny	AM	Sunny	PM
Temperature	45° *f*	AM	68° *f*	PM
Wind Direction	Calm	AM	North, < 5 MPH	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed directional drilling, HDPE fusion safety, and pipe handling. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	3:30 PM

Chad Hill with GES, North Country Contractors two workers, and Steven Van Arnam from EA Engineering on site 7:00 AM. Chad Hill conducted daily safety meeting, all reviewed health and safety plan, and NCC reviewed their drilling activity and pipe handling for today, all signed in. Pipe fusion is completed except one joint in Line 'C'. Drill crew (Operator & Laborer w/ drill locator) completed drilling for Line 'C' from Line 'G', back to Line 'A'. They pushed out 80 lineal feet of rod and ended up using a Caterpillar 304 track hoe to excavate a pipe entry point, they moved 3" ø HDPE pipe into place, connected pipe to pull head and began pulling pipe. At 11:30 AM it was noted that the tracer wire was no longer being pulled in with pipe. Wire may have detached from the pull head or been sheared off by the cobble stones being encountered on this drill. Wire will be installed over 3" line when excavating for service line connections between trailers, which will be tied into tracers for service lines in the meter pits. The Contractor broke for lunch and then mixed another tank of bore fluid for completing the pull back. Scott McDonald with GES is meeting with the water meter Representative programing the new individual residential meters. Chad Hill with GES is also coordinating with the public, performing M&PT, and assist the drill crew. NCC continued drilling in Line 'C' and completed the pull back at 2:30 PM. They vacuumed bore fluid, filled excavation with Cat 304 track hoe and ended for the day. They secured all areas impacted by drilling, marked 8" ø fused HDPE pipe staged on the ground for the weekend, and ended for the day leaving at 3:30 PM.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Tanner Sullivan	North Country Contracting	Foreman / Operator	8
Ken Burns	NCC	Laborer	8
Scott McDonald	GES	Project Manager	8
Chad Hill	GES	Superintendent	8
Mike Rhand	Sub Meter Solutions	Technician	6

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Vermeer D36x50 Navigator drill	North Country Contracting	1	8
Astec FM330 boregell pump	"	1	8
HDPE pipe fusion machine	"	1	1
7000 Kw generator	"	1	1
Caterpillar 304E track hoe	"	1	6
Caterpillar 420it rubber tire backhoe	"	1	5
Caterpillar 416it rubber tire backhoe	"	1	0
International Vacuum truck	"	1	2

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
3" ø HDPE pipe	X					
Water meter computer	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Water meter reporting computer installed and online.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Project Schedule Comments

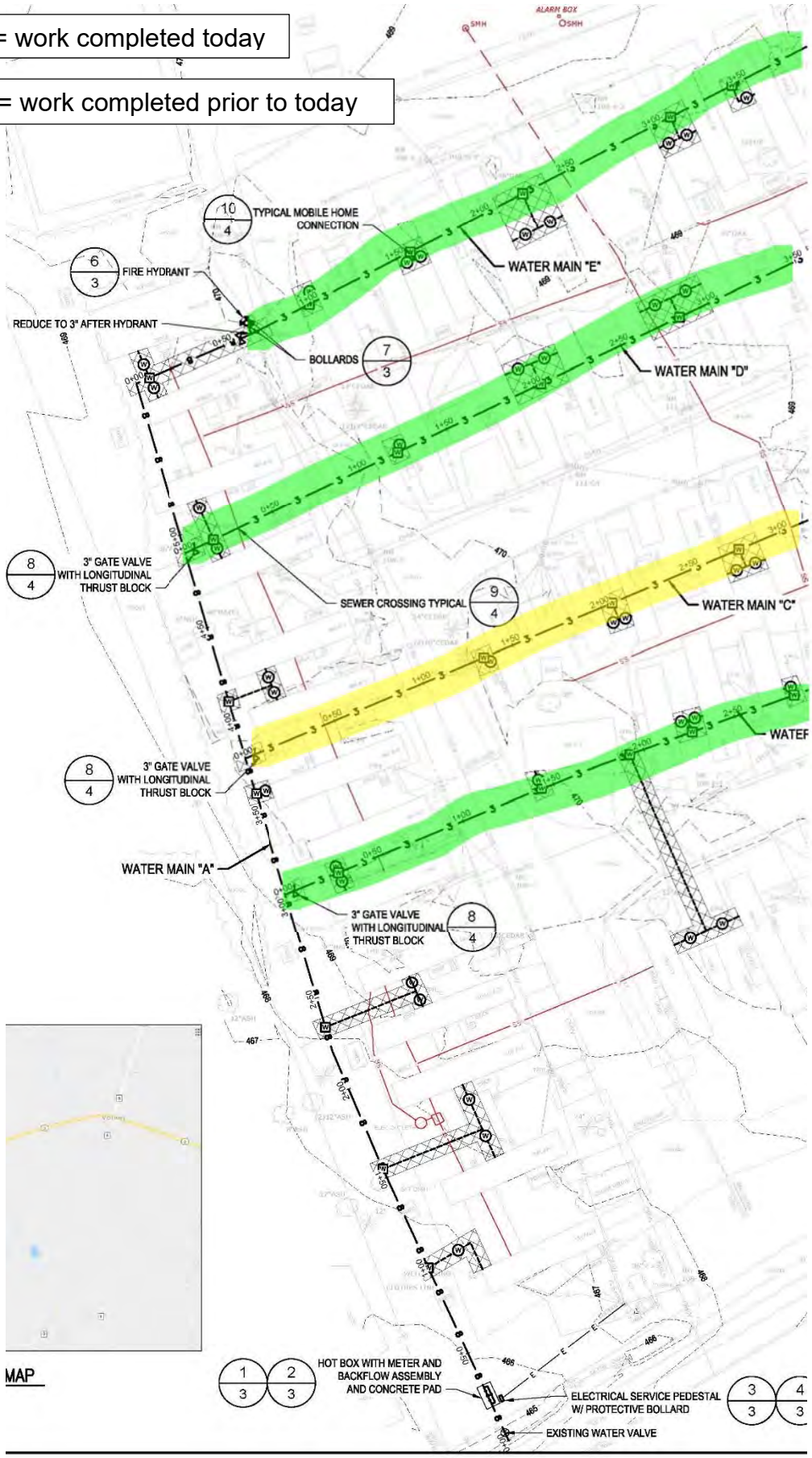
Issues Pending

Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

= work completed today

= work completed prior to today




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
5
3
7
3
SMH
CASING
SS
468
469
470
471
472

Site Photographs (Descriptions Below)



NCC setting up to pull 3" ø HDPE pipe for line 'C'.



Dug bore insertion point for HDPE pipe entry.



Bore rods connected to pull head with HDPE pipe.



3" ø HDPE entry point for Line 'C', @ Line 'A' connection point.



Bore rods and HDPE pipe inserted for pulling.



Using bucket of excavator to position pipe at entry point.

Comments	
Site Inspector(s): Steven Van Arnam	**Date: 09/27/2019**

DAILY INSPECTION REPORT

Report No. 006 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 09/30/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Cloudy	AM	Cloudy	PM
Temperature	53° *f*	AM	61° *f*	PM
Wind Direction	Calm	AM	West, 5 MPH	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed directional drilling, pipe handling, and trench safety as they are starting connections of the HDPE installed to date. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	3:30 PM

Chad Hill with GES, North Country Contractors five workers, and Steven Van Arnam from EA Engineering on site 7:00 AM. Chad Hill conducted daily safety meeting, all reviewed health and safety plan, and NCC reviewed their drilling activity, pipe handling, and activities for excavation / trenching for pipe connection Lines 'B' / 'G'. All present signed in. The drill crew (Operator & Laborer w/ drill locator) setup to begin drilling for 8" ø HDPE for Line 'A' from OCWA mainline on NYS Route #3, to hydrant at station 5+65 +/-. One Operator moved fused 8" ø HDPE pipe into position for pulling tomorrow. The drill crew pushed to roughly sta. 4+50 and met resistance, Contractor excavated with track hoe and assisted the steering of the drill rod. Scott McDonald arrived later in the morning, on site for roughly five hours. The bore crew pushed out the remaining rods, daylighted and installed reamer before ending work for the day at 5:30 PM. Excavation crew excavated at the intersection of lines 'B' / 'G' and installed three electro-fusion couplers and a 3" x 3" x 3" TEE with tracer wire. They bedded the pipe in pipe bedding material, compacted with plate compactor in three lifts, completed backfilling, and ended for the day after securing equipment and materials. All personnel where off site by 5:30 PM.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Tanner Sullivan	North Country Contracting	Foreman / Operator	10
Ken Burns	NCC	Laborer	10
Scott McDonald	GES	Project Manager	5
Chad Hill	GES	Superintendent	10
Marty Jones	NCC	B Operator	10
Tim Zubrzycki	NCC	Foreman / Operator	9
Jirah Palmer	NCC	Operator	9

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Vermeer D36x50 Navigator drill	North Country Contracting	1	8
Astec FM330 boregell pump	"	1	8
Astec HDPE coil fusion machine	"	1	1
7000 Kw generator	"	1	1
Caterpillar 304E track hoe	"	1	6
Caterpillar 420it rubber tire backhoe	"	1	5
Caterpillar 416it rubber tire backhoe	"	1	0
International Vacuum truck	"	1	2
Caterpillar 308 track hoe	"	1	6

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
3" ø HDPE pipe	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

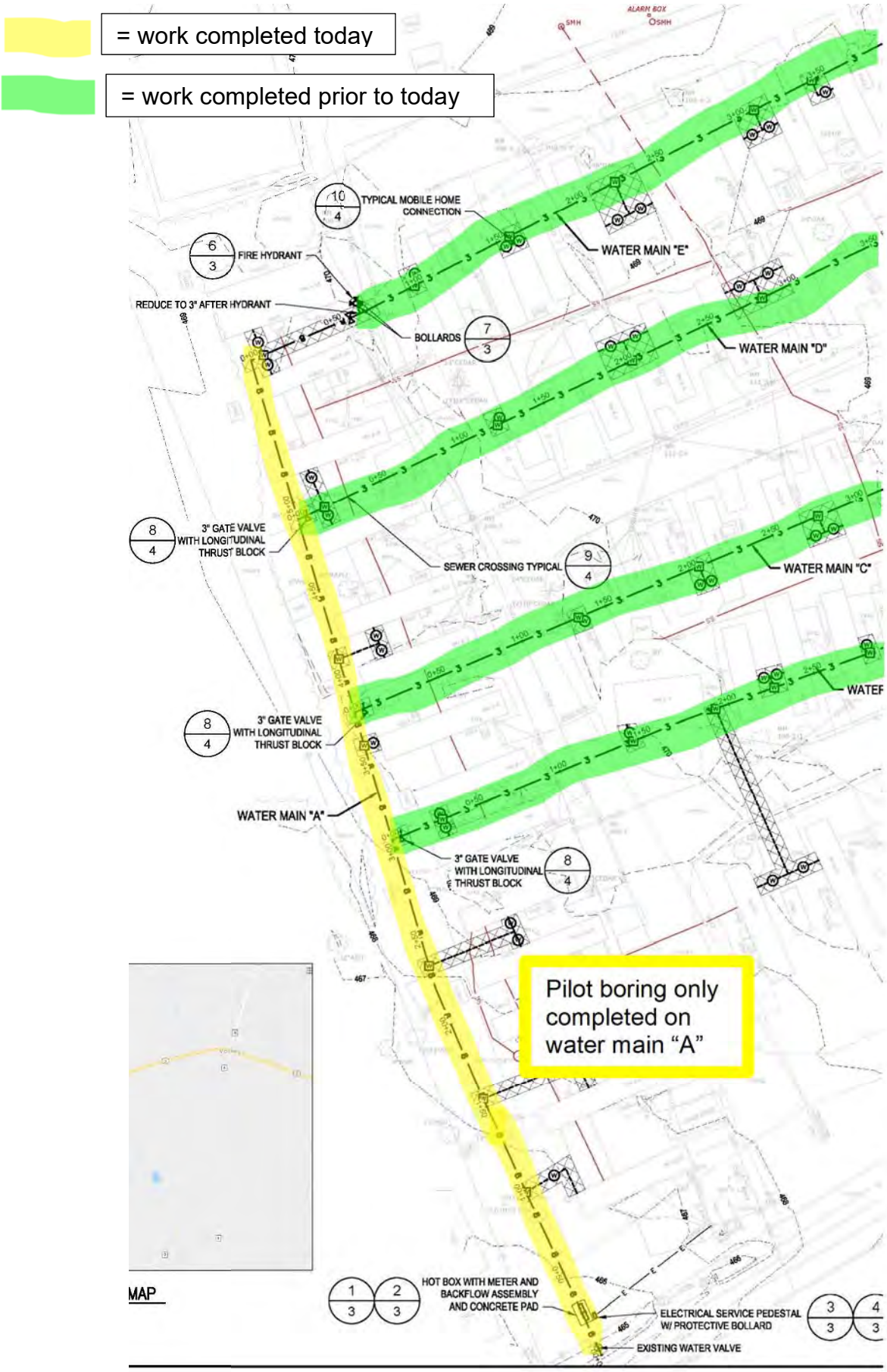
Name	Representing	Entered Exclusion/CRZ Zone	
Don Conan	EA Engineering	**Yes X**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
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		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

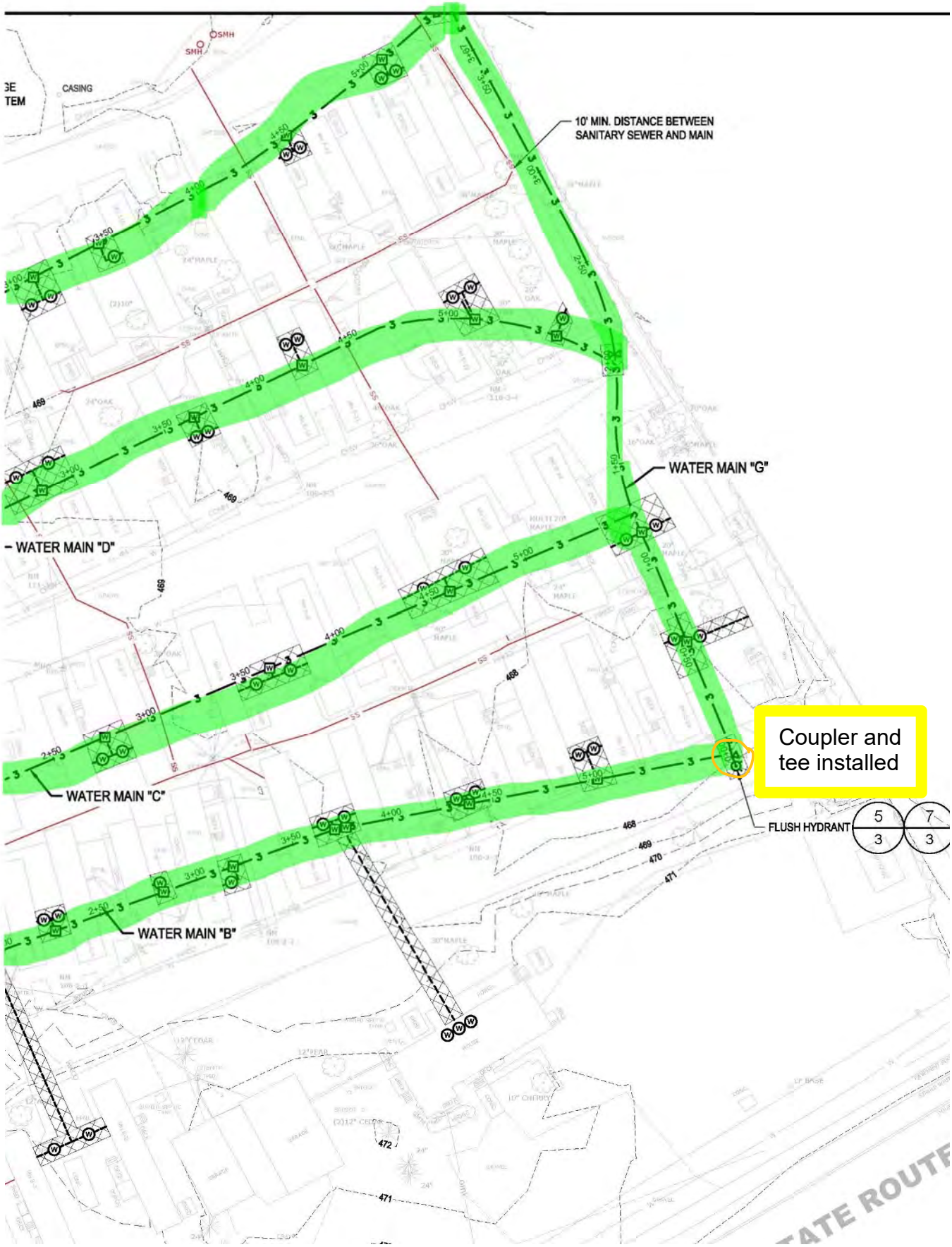
Project Schedule Comments

Issues Pending

Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.


= work completed today
= work completed prior to today
10/4 TYPICAL MOBILE HOME CONNECTION
6/3 FIRE HYDRANT
REDUCE TO 3" AFTER HYDRANT
BOLLARDS 7/3
WATER MAIN "E"
WATER MAIN "D"
8/4 3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK
SEWER CROSSING TYPICAL 9/4
WATER MAIN "C"
8/4 3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK
WATER MAIN "A"
3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK 8/4
Pilot boring only completed on water main "A"
MAP
1/3 2/3 HOT BOX WITH METER AND BACKFLOW ASSEMBLY AND CONCRETE PAD
ELECTRICAL SERVICE PEDESTAL W/ PROTECTIVE BOLLARD 3/3 4/3
EXISTING WATER VALVE


10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
Coupler and tee installed
FLUSH HYDRANT
5
3
7
3

Site Photographs (Descriptions Below)



NCC doing 3" ø HDPE pipe connection lines 'B' / 'G'.



Excavating for HDPE connections.



Pipe crew open excavation for HDPE pipe connections.



Yard hydrant for end of 'G' line.



HDPE pipe bedding material.



Backfilled and compacted excavation at completed pipe connection for lines 'B' / 'G'.

Comments

Site Inspector(s): Steven Van Arnam	**Date: 09/30/2019**

DAILY INSPECTION REPORT

Report No. 007 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/01/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Mostly cloudy	AM	Sun & clouds	PM
Temperature	62° *f*	AM	79° *f*	PM
Wind Direction	Calm	AM	SW, < 5 MPH	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed directional drilling, HDPE pipe handling and cutting, and excavation / trench safety for pipe connections. All signed the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	5:00 PM

Contractor GES and subcontractor NCC arrived on site 7:00 AM, Chad Hill with GES conducted daily safety meeting, NCC has five workers on site, Drill Operator, Laborer with drill head locator, B Operator assisting drill crew, pipe crew Foreman and a B Operator performing 3" ø HDPE pipe connections. Drill crew is setup to ream Line 'A' from station 5+50 +/- back to station 0+25 +/-, yesterday they daylighted bore head, installed reamer, and set up for today before leaving. Today they reamed back to station 2+35 +/- and pushed reamer back out to connect and pull back in the new 8" ø HDPE. Pipe Foreman and other 'B' operator is back at the connection of Line 'B' / 'G', they are excavating to extend Line 'G' HDPE out across the driveway to the new yard hydrant location. At 10:15 AM the drill crew began pulling 8" ø HDPE for 'A' line. GES continues to install barricades around work areas, coordinate interaction with the public, provided Maintenance & Protection of Traffic (M&PT) signs, and are also tracking quantities of materials installed. After breaking for lunch NCC continued to use Vermeer 36x50 bore machine to pull back new 8" ø HDPE and completed the installation by 4:40 PM. They removed Vermeer directional drill to the yard, removed bore rod storage rack, and demobilized bore fluid equipment from work area. Pipe crew completed installing 16 L. F. of 3" ø HDPE, 3" gate valve, yard hydrant, 1" curb stop, and 1" HDPE service for existing water supply building. NCC ended for the day, secured all areas impacted by drilling and excavating, marked ends of pipe on the ground, and ended for the day leaving at 5:30 PM. GES left at 5:30 PM as well.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Chad Hill	GES	Project Superintendent	10
Tanner Sullivan	North Country Contracting	Foreman / B Operator	10
Marty Jones	NCC	B Operator	10
Ken Burns	NCC	Laborer	10
Tim	NCC	Pipe Crew Foreman	10
Jirah Palmer	NCC	B Operator	10

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Vermeer D36x50 Navigator drill	North Country Contracting	1	9
Astec FM330 boregell pump	"	1	9
HDPE pipe electro fusion machine	"	1	1
7000 Kw generator	"	1	1
Caterpillar 304E Track Hoe	"	1	5
Caterpillar 420it rubber tire backhoe	"	1	2
Caterpillar 416it rubber tire backhoe	"	1	2
International Vacuum truck	"	1	2
Caterpillar 308 Track Hoe	"	1	8

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
8" ø HDPE pipe	X					
3" ø HDPE pipe	X					
Yard Hydrant	X					
1" corporation stop	X					
1" curb stop, w/ box	X					
3" Gate Valve w/ valve box	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

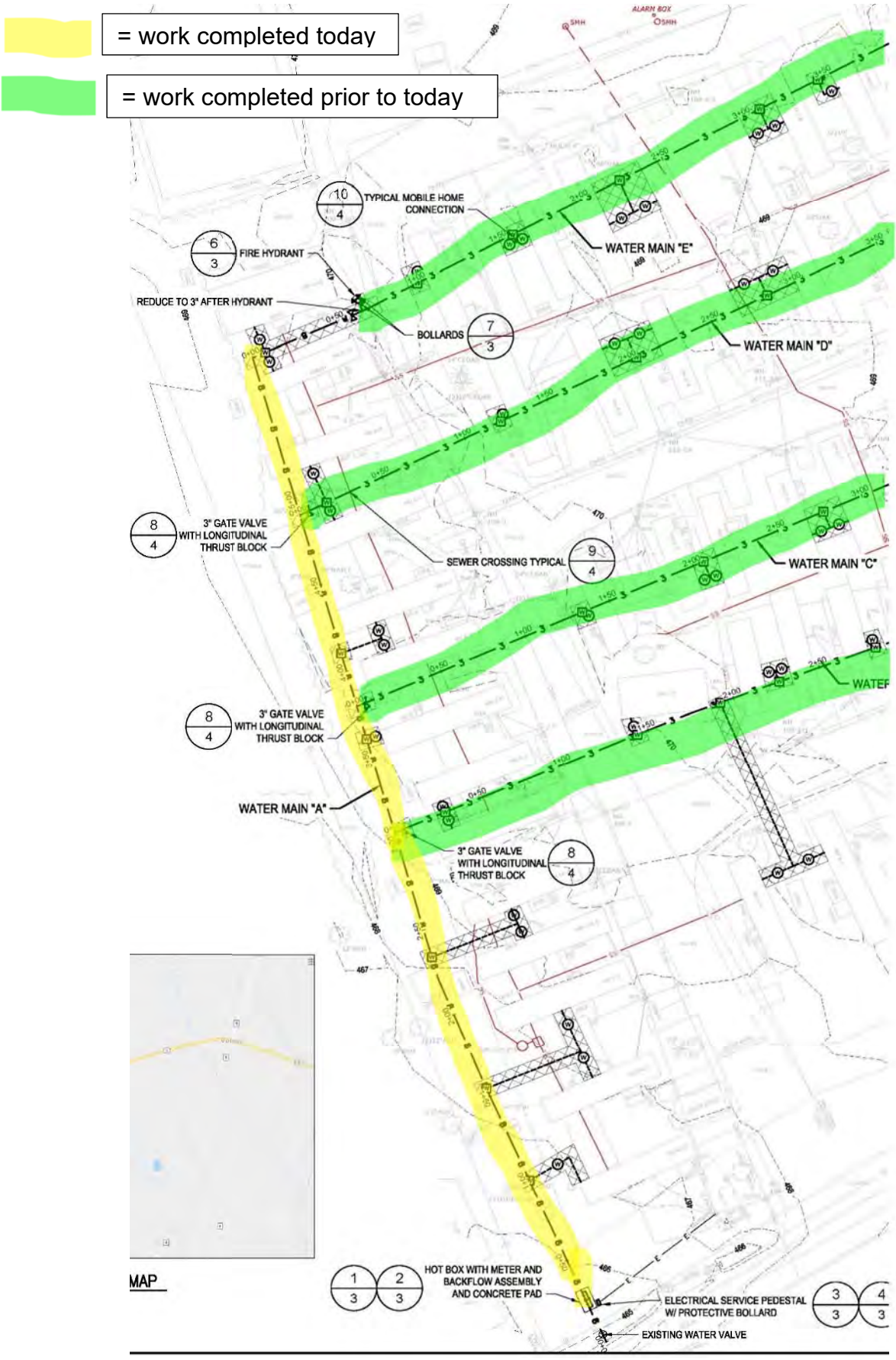
Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

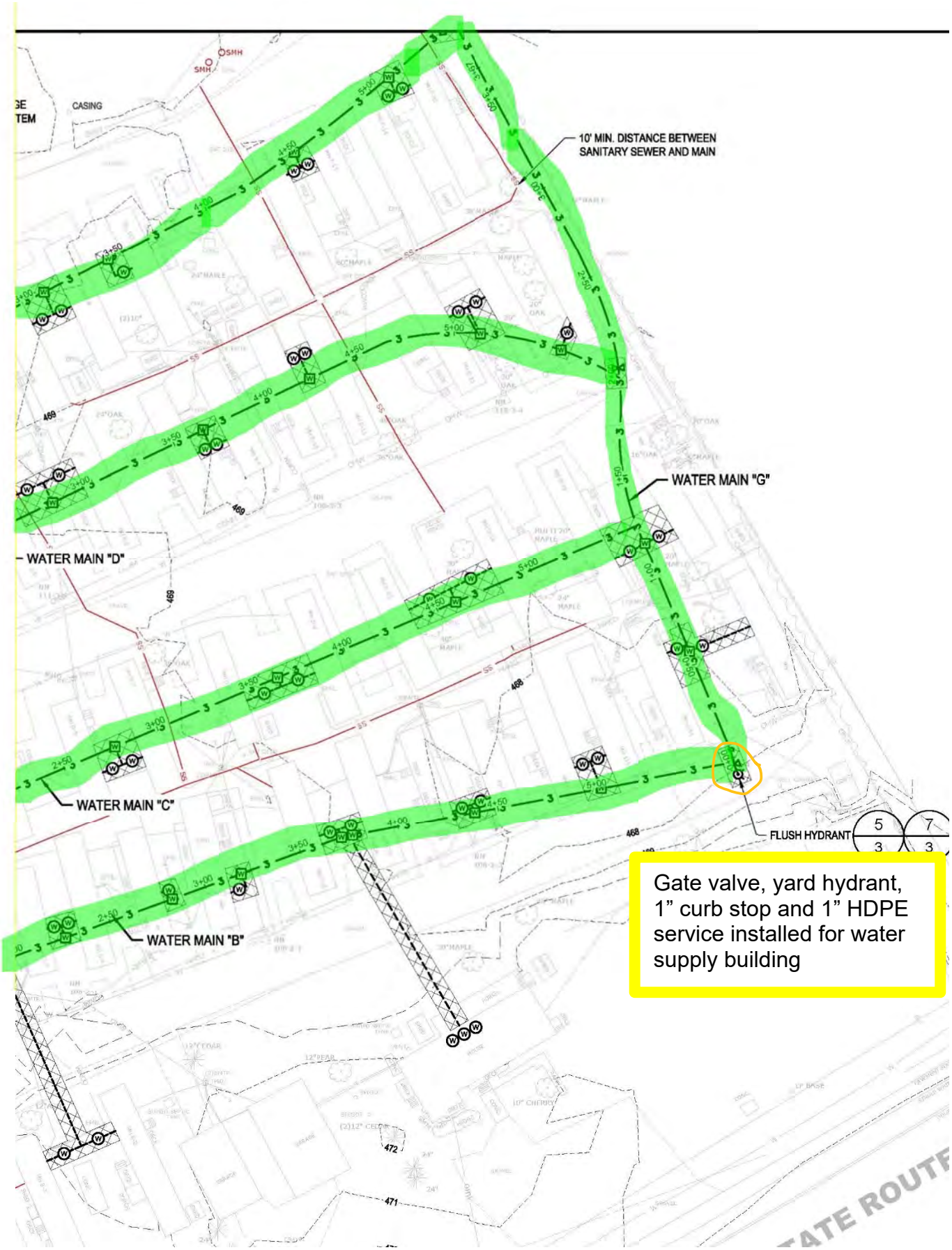
Project Schedule Comments

Issues Pending

Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.


= work completed today
= work completed prior to today
10/4 TYPICAL MOBILE HOME CONNECTION
6/3 FIRE HYDRANT
REDUCE TO 3" AFTER HYDRANT
BOLLARDS 7/3
WATER MAIN "E"
WATER MAIN "D"
8/4 3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK
SEWER CROSSING TYPICAL 9/4
WATER MAIN "C"
8/4 3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK
WATER MAIN "A"
3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK 8/4
MAP
1/3 2/3 HOT BOX WITH METER AND BACKFLOW ASSEMBLY AND CONCRETE PAD
ELECTRICAL SERVICE PEDESTAL W/ PROTECTIVE BOLLARD 3/3 4/3
EXISTING WATER VALVE


10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
Gate valve, yard hydrant, 1" curb stop and 1" HDPE service installed for water supply building

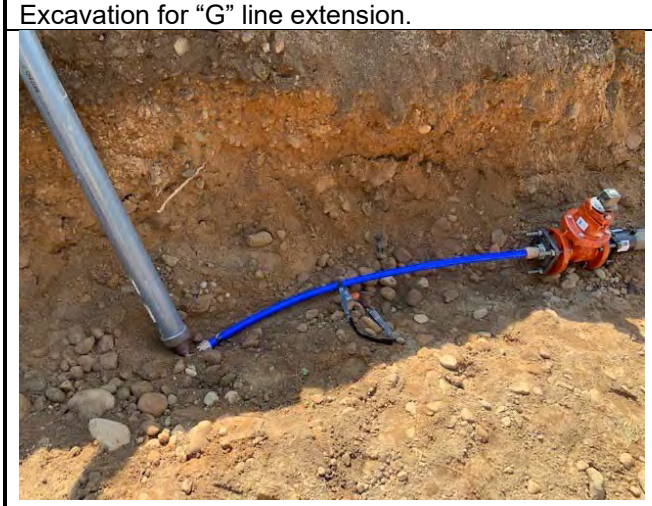
Site Photographs (Descriptions Below)



Excavation for “G” line extension.



Excavation for yard hydrant.



Line ‘G’, 3” HDPE extension to yard hydrant, support blocks and #2 stone for weeps installed prior to backfill.



Initial insertion of 8” HDPE bore for Line ‘A’, mini excavator used to hold pipe in penetration point.



Directional drill in operation, pulling in new HDPE, this is ‘A’ Line.



Pulling 8” HDPE for ‘A’ Line. Pit at insertion for bore was vacuumed for fluid extraction.

Comments	
Site Inspector(s): Steven Van Arnam	**Date: 10/01/2019**

DAILY INSPECTION REPORT

Report No. 008 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/02/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Mostly cloudy	AM	Clouds, mist	PM
Temperature	66° *f*	AM	59° *f*	PM
Wind Direction	Calm	AM	NW, 5-10 MPH	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed directional drilling, HDPE service pipe handling / cutting, and excavation / trench safety for pipe connections. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	4:30 PM

Sub-Contractor NCC and GES on site 7:00 AM, Chad Hill with GES conducted daily safety meeting, NCC has five workers on site, Drill Operator, Laborer with drill head locator, B Operator assisting drill crew, pipe crew Foreman and a B Operator performing 3" ø HDPE pipe connections. Pipe crew mobilized to second access driveway to begin connections for Lines 'C' / 'D' to Line 'G'. Drill Operator is replacing a hydraulic line and the other two drill crew members are cleaning up spoils and excavations from the last two days on site activities. The drill was repaired by 9:30 and they setup to push drill rods for service lines to trailers B1 & B2, they drilled and pulled in lines. They also drilled for garage, and the three-unit apartment house. Pipe Foreman and other 'B' operator excavated for connection of Line 'D' / 'G', they exposed the bored 3" ø HDPE and cut in new 3"x3"x3" TEE and required coupling to make connection. They completed fusing the couplings and TEE and excavated to extend tracer wire to aboveground marker for future location services. The crew backfilled and compacted the area before moving to the yard to begin work on the master meter / backflow prevention apparatus for the Park supply line hot house. NCC ended for the day, secured all areas impacted by drilling and excavating, marked ends of all new pipes on the ground, and ended for the day leaving at 4:30 PM. GES left at 4:30 PM as well.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Chad Hill	GES	Project Superintendent	9
Tanner Sullivan	North Country Contracting	Foreman / B Operator	9
Marty Jones	NCC	B Operator	9
Ken Burns	NCC	Laborer	9
Tim Zubrzycki	NCC	Pipe Crew Foreman	9
Jirah Palmer	NCC	B Operator	9

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Vermeer D36x50 Navigator drill	North Country Contracting	1	8
Astec FM330 boregell pump	"	1	8
HDPE pipe electro fusion machine	"	1	1
7000 Kw generator	"	1	1
Caterpillar 304E Track Hoe	"	1	5
Caterpillar 420it rubber tire backhoe	"	1	4
Caterpillar 416it rubber tire backhoe	"	1	4
International Vacuum truck	"	1	2
Caterpillar 308 Track Hoe	"	1	8

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
3" ø HDPE pipe	X					
3" ø Coupling	X					
3" x 3" x 3" HDPE TEE	X					
1" ø HDPE Service pipe	X					
Item 4 bedding material	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

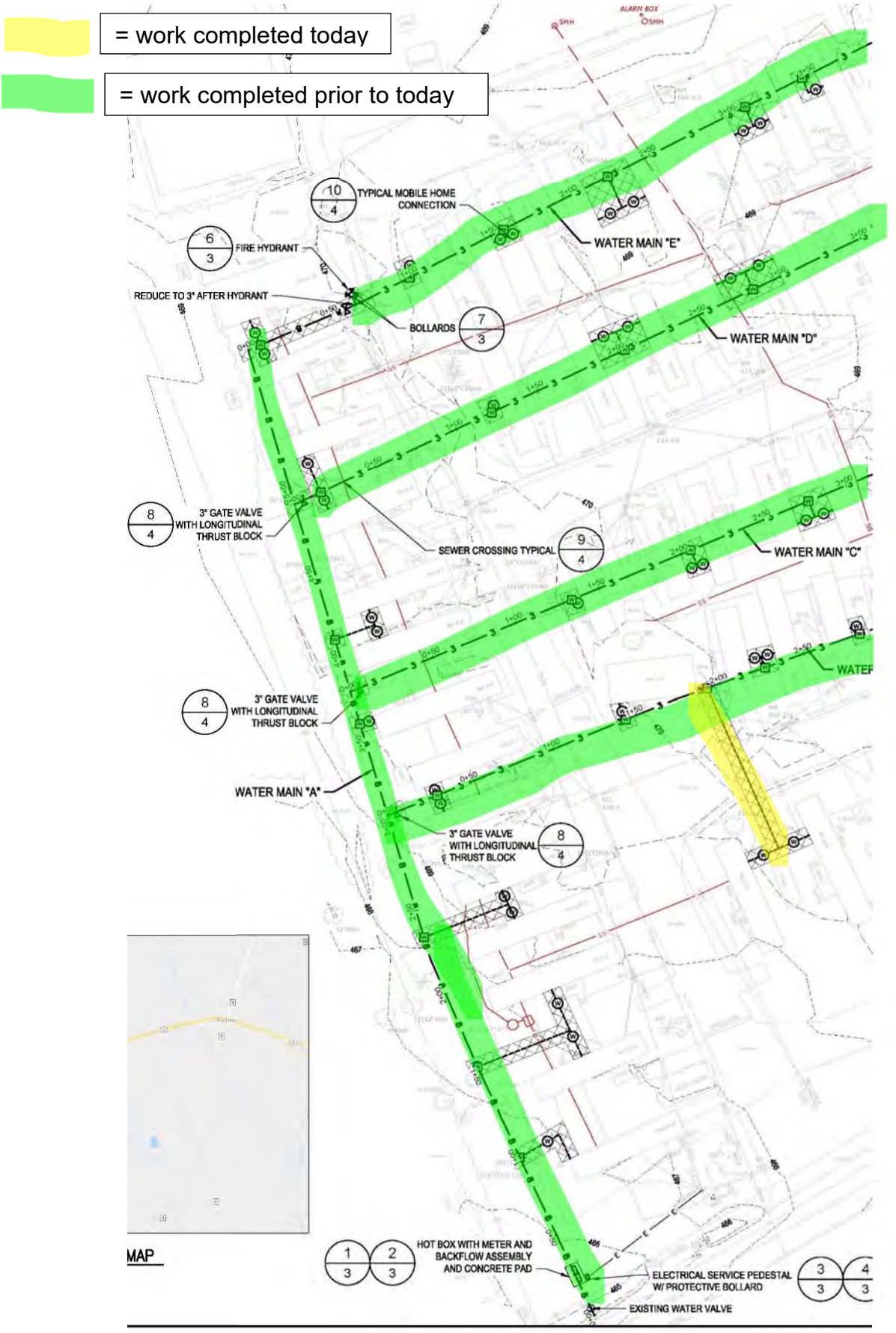
Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

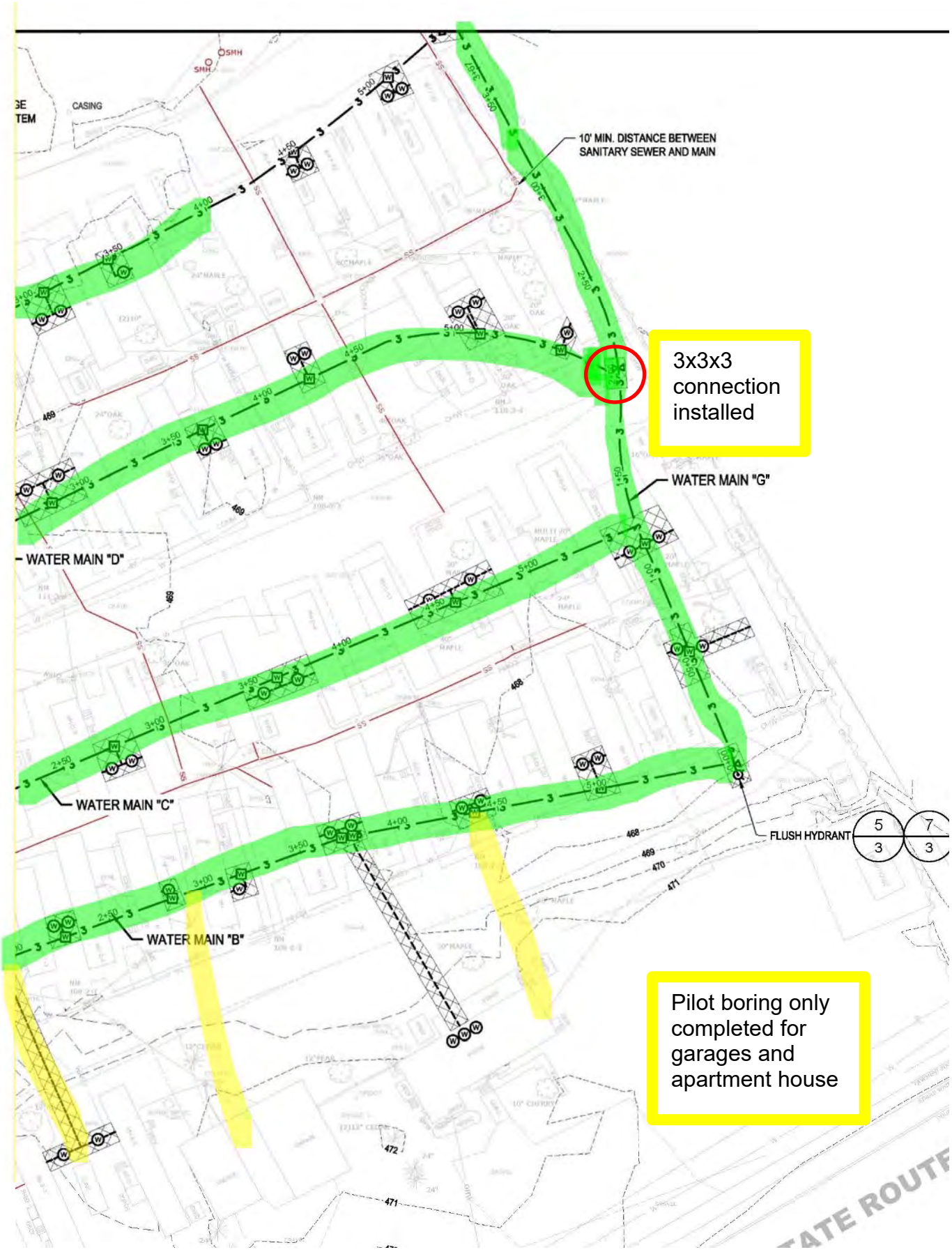
Project Schedule Comments

Issues Pending

Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.


= work completed today
= work completed prior to today
10/4 TYPICAL MOBILE HOME CONNECTION
6/3 FIRE HYDRANT
REDUCE TO 3" AFTER HYDRANT
BOLLARDS 7/3
WATER MAIN "E"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "A"
8/4 3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK
SEWER CROSSING TYPICAL 9/4
1/3 2/3 HOT BOX WITH METER AND BACKFLOW ASSEMBLY AND CONCRETE PAD
3/3 4/3 ELECTRICAL SERVICE PEDESTAL W/ PROTECTIVE BOLLARD
EXISTING WATER VALVE
MAP


10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
3x3x3 connection installed
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
Pilot boring only completed for garages and apartment house

Site Photographs (Descriptions Below)



Excavation and connection of 'D' line to Line 'G'.



Contractor compacting backfill over Line 'D'.



Caterpillar #)* track hoe used for Line 'D' / 'G' connection.



Vermeer D36x50 drilling for 1" HDPE service line.



Directional drill in operation, Laborer with locator tracks head of drill rods to ensure location/cover for new HDPE.



Two 1" HDPE pipes for services to Trailers B1 & B2.

Comments

Site Inspector(s): Steven Van Arnam	**Date: 10/02/2019**

DAILY INSPECTION REPORT

Report No. 009 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/03/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Mostly cloudy	AM	Cloudy, mist	PM
Temperature	50° *f*	AM	55° *f*	PM
Wind Direction	Calm	AM	NW, 5-10 MPH	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed directional drilling, HDPE service pipe handling / cutting, and excavation / trench safety for pipe connections. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	4:30 PM

Sub-Contractor NCC and GES on site 7:00 AM, Chad Hill with GES conducted daily safety meeting, NCC has five workers on site, two Foremen, Laborer, and two 'B' Operators. Today one crew that had completed the Line 'D' / 'G' connection yesterday moved over to perform 3" ø HDPE pipe connection at Line 'C' to Line 'G'. GES and Foreman coordinated with the residents of the adjacent mobile homes to get vehicles moved. The pipe Foreman and 'B' operator excavated for connection of Line 'C' / 'G', they exposed the bored 3" ø HDPE and cut in new 3"x3"x3" TEE and required couplings to make the connection. They completed fusing the couplings and TEE, backfilled, and compacted the area. The other pipe crew repaired a water leak from yesterday and accessed a damaged drywell to assess the repairs needed. Following some maintenance on equipment they mobilized to Line 'A' location at 3" ø HDPE for Line 'B'. They excavated to perform the connection there. The second crew fused on an 8"x8"x3" TEE, 3" gate valve and 8" & 3" reducer to complete connection at Line 'A' / 'B'. they installed valve box on 3" gate valve and backfilled. GES is continuing to provide barricades at excavations and coordinate activities with park residents.
Conducted Progress Meeting #1 at 10:00 AM and all in attendance toured the site following the meeting.
NCC ended for the day at 4:00 PM, secured all areas impacted by excavating, marked out work areas for tomorrow, and ended for the day leaving at 4:30 PM. GES left at 4:30 PM as well.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Chad Hill	GES	Project Superintendent	9
Tanner Sullivan	North Country Contracting	Foreman / B Operator	9
Marty Jones	NCC	B Operator	9
Ken Burns	NCC	Laborer	9
Tim Zubrzycki	NCC	Pipe Crew Foreman	9
Jirah Palmer	NCC	B Operator	9

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Caterpillar 420it rubber tire backhoe	North Country Contracting	1	6
Caterpillar 416it rubber tire backhoe	"	1	8
HDPE pipe electro fusion machine	"	1	3
7000 Kw generator	"	1	3
Caterpillar 304E Track Hoe	"	1	9
Caterpillar 308 Track Hoe	"	1	9
Plate compactor	"	1	2

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
3" ø HDPE pipe	X					
3" ø Coupling	X					
3" x 3" x 3" HDPE TEE	X					
8" x 8" x 3" HDPE TEE	X					
Item 4 bedding material	X					
3" Gate valve w/ valve box	X					
8" x 3" HDPE reducer	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

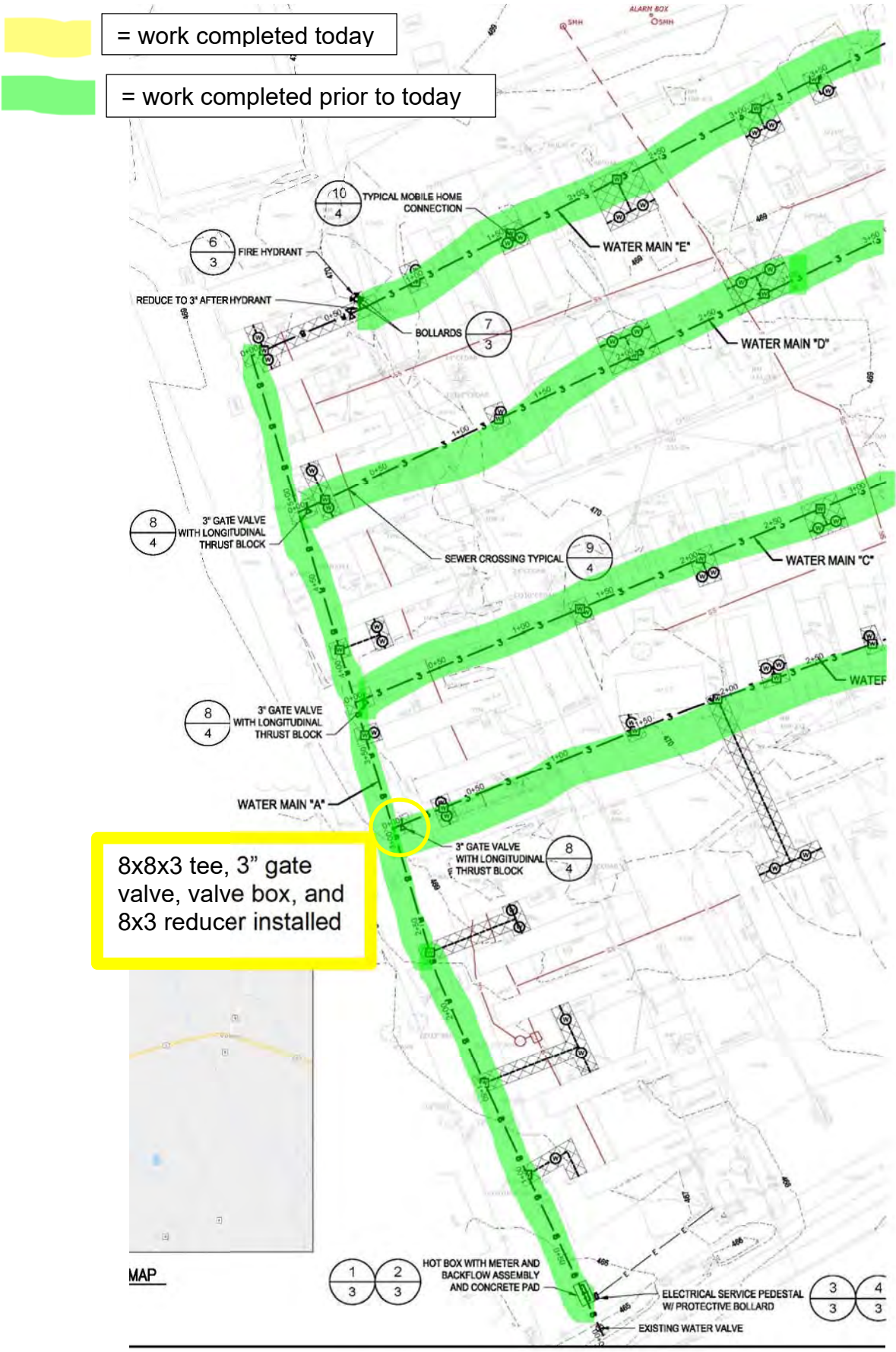
Name	Representing	Entered Exclusion/CRZ Zone	
Dave Chiusano	NYS D.E.C.	**Yes X**	**No**
Kris Keenan	NYS D.E.C.	**Yes X**	**No**
Don Conan	EA Engineering	**Yes X**	**No**
Scott McDonald	GES	**Yes X**	**No**
Jeff Proulx	NCC	**Yes X**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

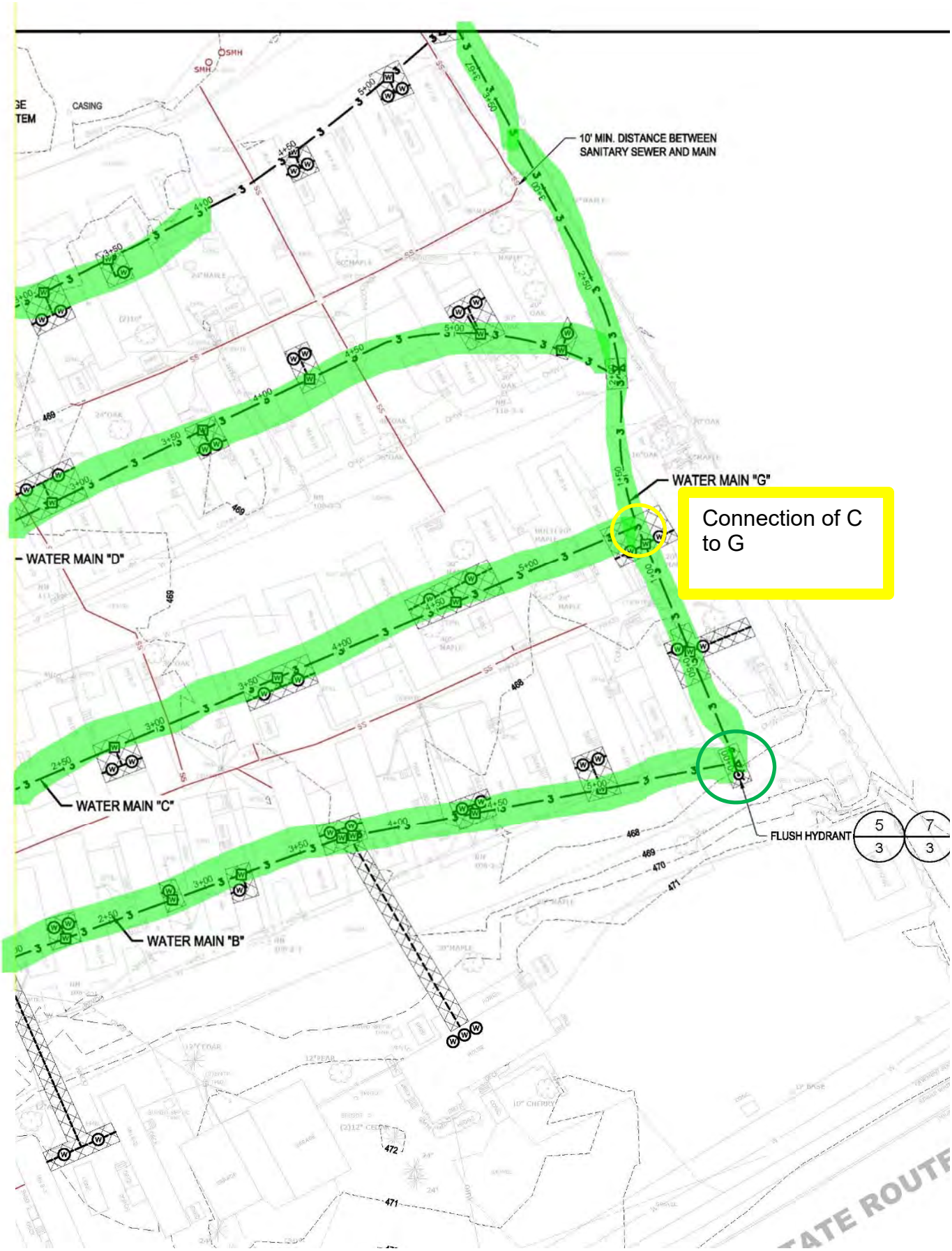
Project Schedule Comments

Issues Pending

Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.


= work completed today
= work completed prior to today
10/4 TYPICAL MOBILE HOME CONNECTION
6/3 FIRE HYDRANT
REDUCE TO 3" AFTER HYDRANT
BOLLARDS 7/3
WATER MAIN "E"
WATER MAIN "D"
WATER MAIN "C"
8/4 3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK
SEWER CROSSING TYPICAL 9/4
WATER MAIN "A"
8x8x3 tee, 3" gate valve, valve box, and 8x3 reducer installed
MAP
1/3 2/3 HOT BOX WITH METER AND BACKFLOW ASSEMBLY AND CONCRETE PAD
ELECTRICAL SERVICE PEDESTAL W/ PROTECTIVE BOLLARD 3/3 4/3
EXISTING WATER VALVE


10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
Connection of C to G
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
5
3
7
3

Site Photographs (Descriptions Below)



Excavation at Line ‘C’ for connection to Line ‘G’.



Contractor excavation with GES barricades.



Caterpillar 308 track hoe used for Line ‘C’ / ‘G’ connection.



Generator and electro fusion machine for ‘A’/’B’ Line.



New bored 3” ø HDPE excavated and laid in trench, this is Line ‘B’, connection to Line ‘A’.



Fusing 8” & 3” HDPE pipes for Line ‘B’ 3” connection to 8” HDPE on Line ‘A’.

Comments

Site Inspector(s): Steven Van Arnam	**Date: 10/03/2019**

DAILY INSPECTION REPORT

Report No. 010 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/04/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Mostly cloudy	AM	Mostly cloudy	PM
Temperature	45° *f*	AM	47° *f*	PM
Wind Direction	Calm	AM	Calm	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed HDPE connection fusion, service pipe handling, and pipe cutting, as well as excavation / trench safety at pipe excavations. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	2:30 PM

GES and Subcontractor NCC on site 7:00 AM, Chad Hill with GES conducted daily safety meeting. NCC has four workers on site, one Foreman, one Laborer, and two 'B' Operators. Today the crews are working together to complete the Line 'E' / 'G' connection at the rear of the Park. This is the last 3" to 3" ø HDPE pipe connection to Line 'G' and approximately 75' will needed to be open trenched as the Contractor had issues with fluid delivery to the drill head when boring and had to daylight Line 'E' bore early- short of the Line 'G' location. GES and Foreman coordinated with the residents of the adjacent mobile homes to get vehicles moved yesterday and this morning. They have mobilized both mini excavators, rubber tire backhoes, and electro fusion equipment needed for connection of remaining 75' of 3" ø HDPE in trench for Line 'E'. One crew excavated at Line 'G' location, the other crew excavated on Line 'E' at the end of bored 3" ø HDPE line, and they fused additional pipe on to reach the Line 'G', cut in new 3"x3"x3" TEE and required couplings to make the connection w/ two 3"ø 45° bends. They completed fusing the couplings, bends, and TEE, both crews worked to backfill and compact the driveway areas. The Contractor demobilized the Vermeer Directional drill, and delivered a skid steer loader and steel road plates to the site. One 8'x10' road plate was placed over the existing drywell structure to secure I until repairs can be made. NCC ended pipe work for the day at 1:00 PM, secured all areas impacted by excavating, secured equipment and materials stored on site for the weekend, and left for the weekend at 2:30 PM.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Chad Hill	GES	Project Superintendent	8
Tim Zubrzycki	North Country Contracting	Foreman	7
Marty Jones	NCC	B Operator	5
Ken Burns	NCC	Laborer	7
Jirah Palmer	NCC	B Operator	7

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Caterpillar 420it rubber tire backhoe	North Country Contracting	1	7
Caterpillar 416it rubber tire backhoe	"	1	2
HDPE pipe electro fusion machine	"	1	3
7000 Kw generator	"	1	3
Caterpillar 304E Track Hoe	"	1	7
Caterpillar 308 Track Hoe	"	1	7
Plate compactor	"	1	2

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
3" ø HDPE pipe	X					
3" ø Couplings	X					
3" x 3" x 3" HDPE TEE	X					
3" ø 45° bend HDPE	X					
Item 4 bedding material	X					
Tracer wire & Rhino Marker	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Project Schedule Comments

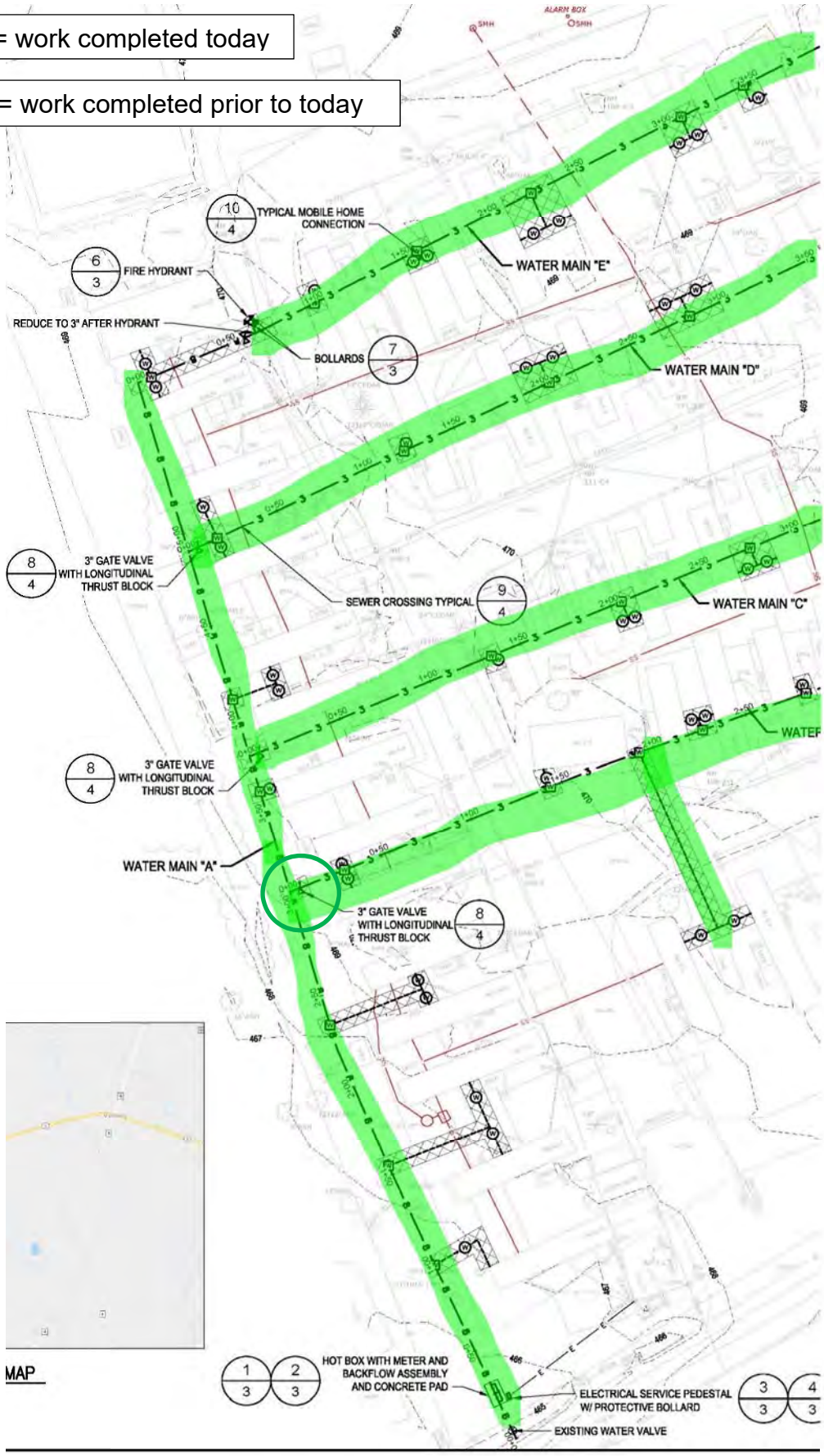
Issues Pending

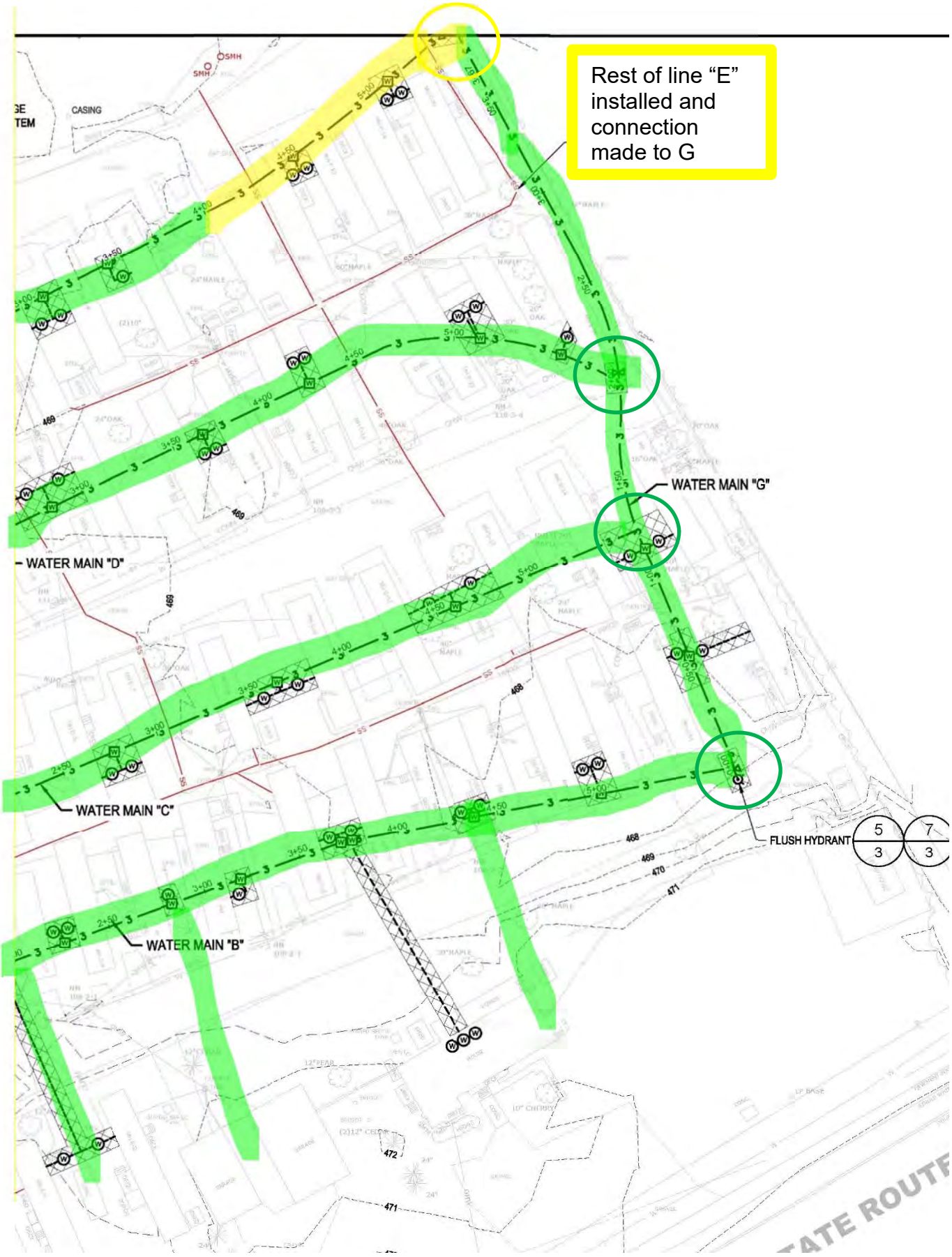
Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

= work completed today

= work completed prior to today




Rest of line "E" installed and connection made to G
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
5
3
7
3
SMH
CASING

Site Photographs (Descriptions Below)



Excavation at Line ‘G’ for connection of Line ‘F’.



Contractor excavation with GES barricades, they are trenching for Line ‘F’ to Line ‘G’ location.



Extending Line ‘F’ under an existing water line, too Line ‘G’ connection.



Trenched for Line ‘F’, the bore was short because of the loss of bore fluid flow to drill head.



The new 3” ø HDPE was excavated and laid in trench, this is Line ‘F’, extended to Line ‘G’.



Line ‘F’ @ Line ‘G’, area backfilled and compacted.

Comments

Site Inspector(s): Steven Van Arnam	**Date: 10/04/2019**

DAILY INSPECTION REPORT

Report No. 011 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/07/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Clouds, rain	AM	Mostly cloudy, rain	PM
Temperature	55° *f*	AM	57° *f*	PM
Wind Direction	Calm	AM	Calm	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed wet weather working, HDPE pipe handling / cutting, and excavation / trench safety at pipe excavations. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	4:30 PM

GES and Sub-Contractor NCC on site 7:00 AM, Chad Hill with GES conducted daily safety meeting, NCC has five workers on site, two Foremen, one Laborer, and two 'B' Operators. Today the crew is working together to begin the construction of the pipe from the OCWA line into the metering assembly. They notified OCWA as required and excavated to install 8" ø HDPE with retainer and gland bolted directly to 8" ø gate valve installed by the Water Authority. The Contractor placed steel road plates and trench shoring for stabilization of the work area. They fused retainer on HDPE riser and started with piping 90° bend, 6" ø gate valve, Sensus meter with strainer, 6" ø gate valve, 6" ø 90° elbow, 6" x 8" increaser, 8" x 8" x 8" TEE, 6" x 8" reducer and piping for the bypass adjacent to the meter train, and 6" ø gate valve for bypass. On the outlet side of the meter they placed the backflow preventor in place and laid out for discharge pipe to new 8" ø HDPE bored in for Line 'A'. NCC ended pipe work for the day at 4:15 PM, secured all areas impacted by excavating, secured equipment and materials stored on site for the night, and left for the day at 4:30 PM.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Chad Hill	GES	Project Superintendent	9
Tim Zubrzycki	North Country Contracting	Foreman	9
Tanner Sullivan	NCC	Foreman	9
Ken Burns	NCC	Laborer	9
Jirah Palmer	NCC	B Operator	9
Marty Jones	NCC	B Operator	9

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Caterpillar 420it rubber tire backhoe	North Country Contracting	1	8
Caterpillar 416it rubber tire backhoe	"	1	0
HDPE pipe electro fusion machine	"	1	0
7000 Kw generator	"	1	0
Caterpillar 304E Track Hoe	"	1	8
Caterpillar 308 Track Hoe	"	1	8
Plate compactor	"	1	2
Cat 289C Skid Steer Loader	"	1	8
Hitachi EDX120 Track hoe	"	1	0

Material Description	Imported/Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
8" ø HDPE pipe	X					
8" ø Couplings	X					
8" ø 45° bend HDPE	X					
Item 4 bedding material	X					
Tracer wire	X					
6" ø 90° elbow	X					
8" x 8" x8" TEE	X					
6" x 8" reducers	X					
Sensus water meter w/ strainer	X					
6" ø gate valves	X					
8" ø gate valves	X					
Backflow preventor	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

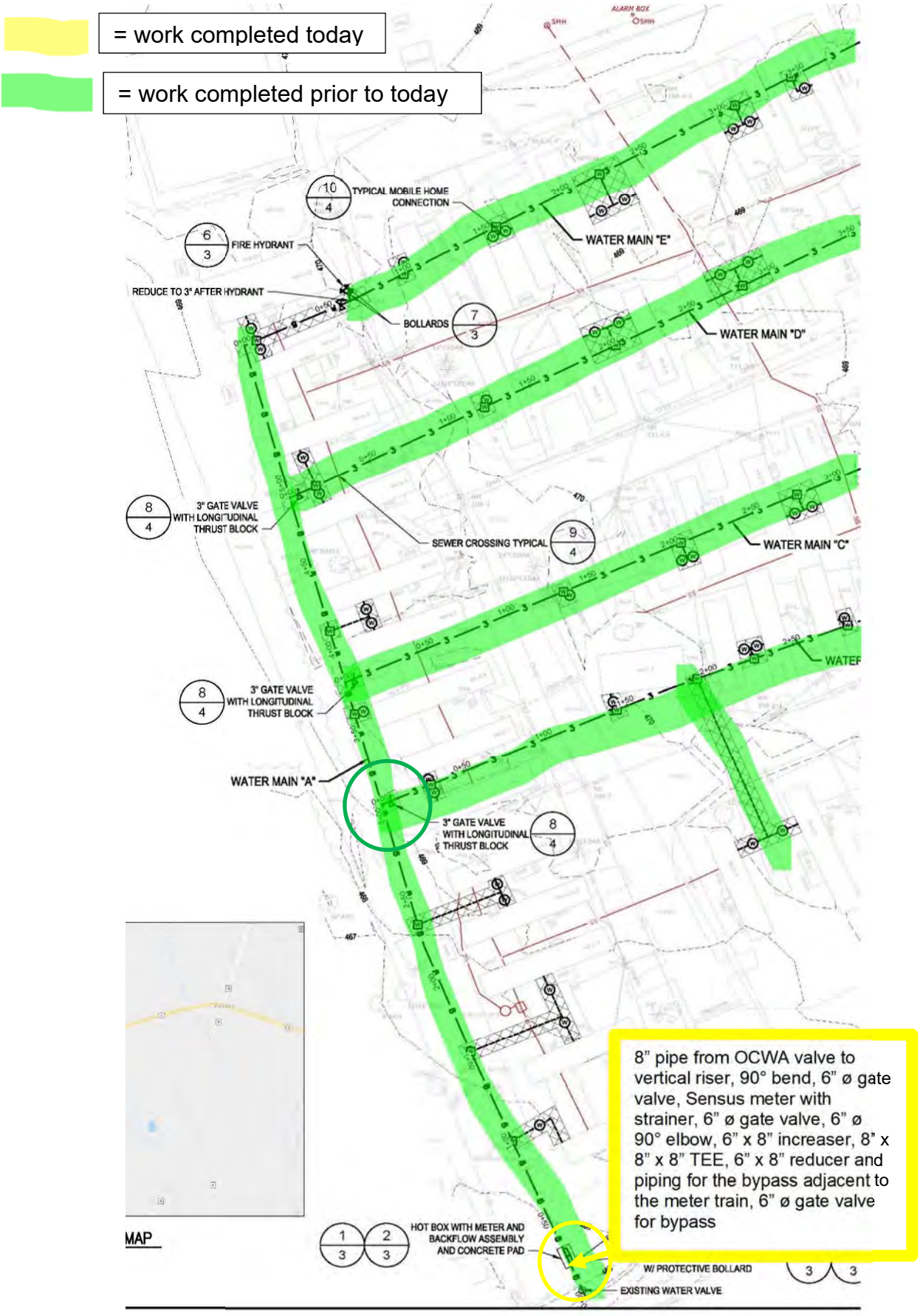
Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

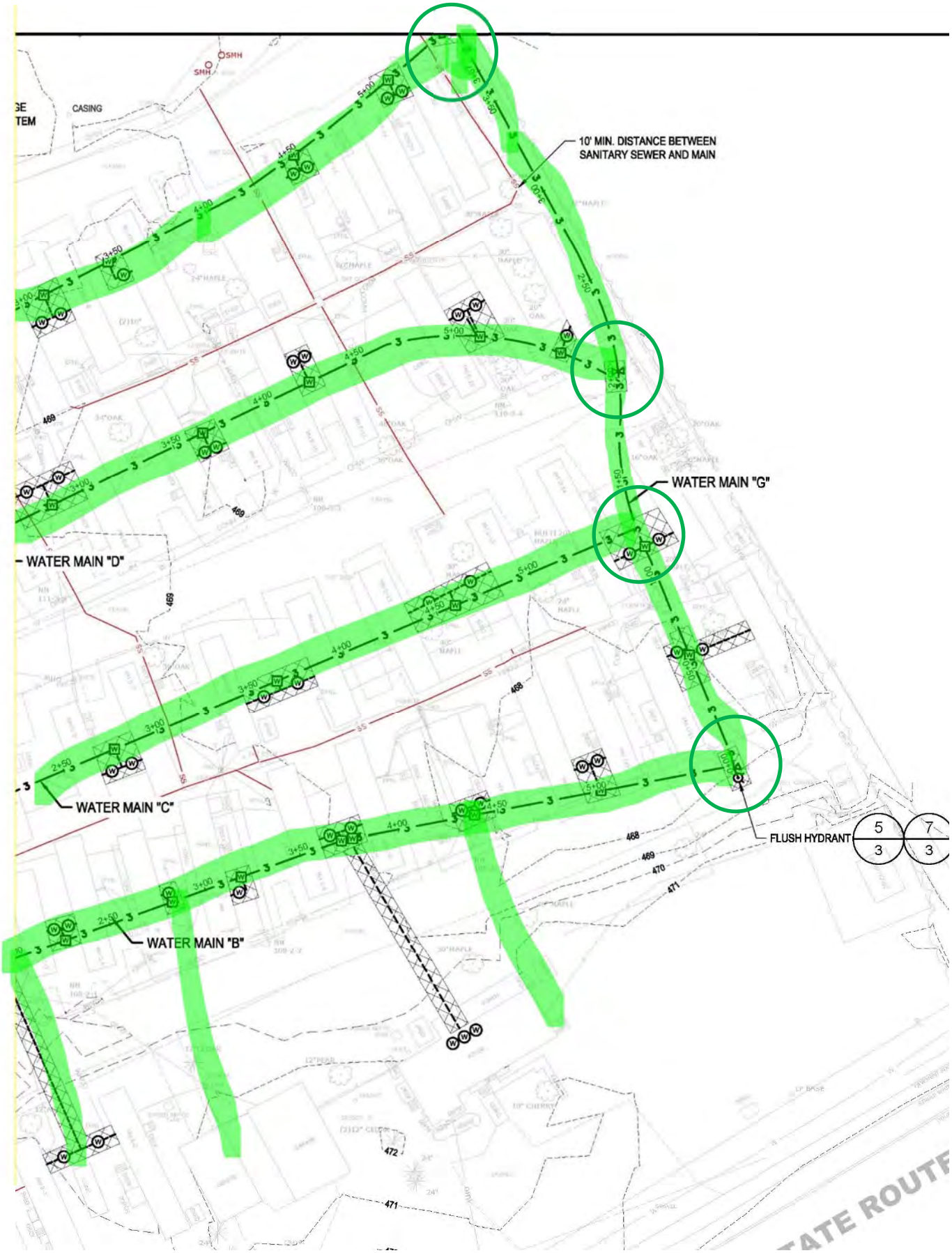
Project Schedule Comments

Issues Pending

Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.


= work completed today
= work completed prior to today
10/4 TYPICAL MOBILE HOME CONNECTION
6/3 FIRE HYDRANT
REDUCE TO 3" AFTER HYDRANT
BOLLARDS 7/3
WATER MAIN "E"
WATER MAIN "D"
WATER MAIN "C"
8/4 3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK
SEWER CROSSING TYPICAL 9/4
WATER MAIN "A"
MAP
1/3 2/3 HOT BOX WITH METER AND BACKFLOW ASSEMBLY AND CONCRETE PAD
W/ PROTECTIVE BOLLARD
EXISTING WATER VALVE
8" pipe from OCWA valve to vertical riser, 90° bend, 6" ø gate valve, Sensus meter with strainer, 6" ø gate valve, 6" ø 90° elbow, 6" x 8" increaser, 8" x 8" x 8" TEE, 6" x 8" reducer and piping for the bypass adjacent to the meter train, 6" ø gate valve for bypass


10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
5
3
7
3
CASING
SMH

Site Photographs (Descriptions Below)



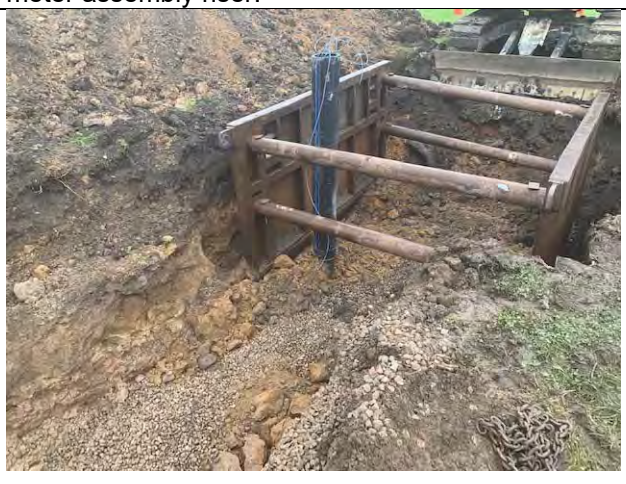
Excavation at Line ‘A’ for meter assembly “hot box”.



Contractor excavation and trenching for Line ‘A’ at the meter assembly riser.



Existing steel natural gas Line ‘and gate valve installed by OCWA for Line ‘A’ connection.



Trench and Line ‘A’ riser on supply side of meter assembly.



The new 6” ø Sensus master meter with strainer.



Hot Box supply riser with meter and strainer being installed.

Comments	
Site Inspector(s): Steven Van Arnam	**Date: 10/07/2019**

DAILY INSPECTION REPORT

Report No. 012 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/08/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Clear	AM	Sunny	PM
Temperature	43° *f*	AM	57° *f*	PM
Wind Direction	Calm	AM	Calm	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed pipe fitting & lifting for "Hot Box" piping, HDPE pipe handling / cutting, and excavation / trench safety. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	4:30 PM

GES and Sub-Contractor NCC on site 7:00 AM, Chad Hill with GES conducted daily safety meeting, all signed in. NCC has five workers on site, two Foremen, one Laborer, and two 'B' Operators. Today the crew is continuing work on the construction of the supply piping and metering assembly. They excavated to install 8" ø HDPE outlet pipe with retainer and gland to connect to the 8" ø HDPE that was bored in for Line 'A'. They exposed the 8" ø HDPE back 30 L.F. from the "hot box" location and fused the 8" ø HDPE outlet pipe to the previously installed Line 'A' HDPE. They completed backfilling and compacting stone backfill and the installation floor drain. Once completed two workers stayed working on the concrete forms for the concrete floor of the "hot box". Advanced Tree Service arrived to begin tree removals, three trees along Mobile Homes on 'A' Line today, One Foreman, B Operator, and Laborer excavated for 3" connection of Line 'C' to 8" ø 'A' Line behind Mobile Home on main driveway. Excavated, installed 8"x8"x8" TEE, two 8" fusion couplers, 8"x3" reducer, 3" gate valve w/ valve box and cover, and 3" coupling. Completed connection, installed tracer wires to marker riser, and backfilled ending work at 4:15 PM. NCC ended work for the day, secured all areas impacted by excavating, secured equipment and materials stored on site for the night, and left for the day at 4:30 PM. Advanced Tree Service left at 4:30 as well.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Chad Hill	GES	Project Superintendent	9
Tim Zubrzycki	North Country Contracting	Foreman	9
Tanner Sullivan	NCC	Foreman	9
Ken Burns	NCC	Laborer	9
Jirah Palmer	NCC	B Operator	9
Marty Jones	NCC	B Operator	9
	Advanced Tree Service	Owner	6
	"	Laborer	6

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Caterpillar 420it rubber tire backhoe	North Country Contracting	1	8
Caterpillar 416it rubber tire backhoe	"	1	2
HDPE pipe electro fusion machine	"	1	2
7000 Kw generator	"	1	2
Caterpillar 304E Track Hoe	"	1	8
Caterpillar 308 Track Hoe	"	1	8
Plate compactor	"	1	2
Cat 289C Skid Steer Loader	"	1	8
Hitachi EDX120 Track hoe	"	1	0
Bucket truck	Advance Tree Service	2	8
Skid Steer	"	1	4
Tree Chipper	"	1	6

Material Description	Imported/Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
8" ø HDPE pipe	X					
8" ø Couplings	X					
8" ø 45° bend HDPE	X					
Item 4 bedding material	X					
Tracer wire	X					
3" gate valve w/ valve box & cover	X					
8" x 3" reducer	X					
3" coupling	X					
Rhino marker box	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

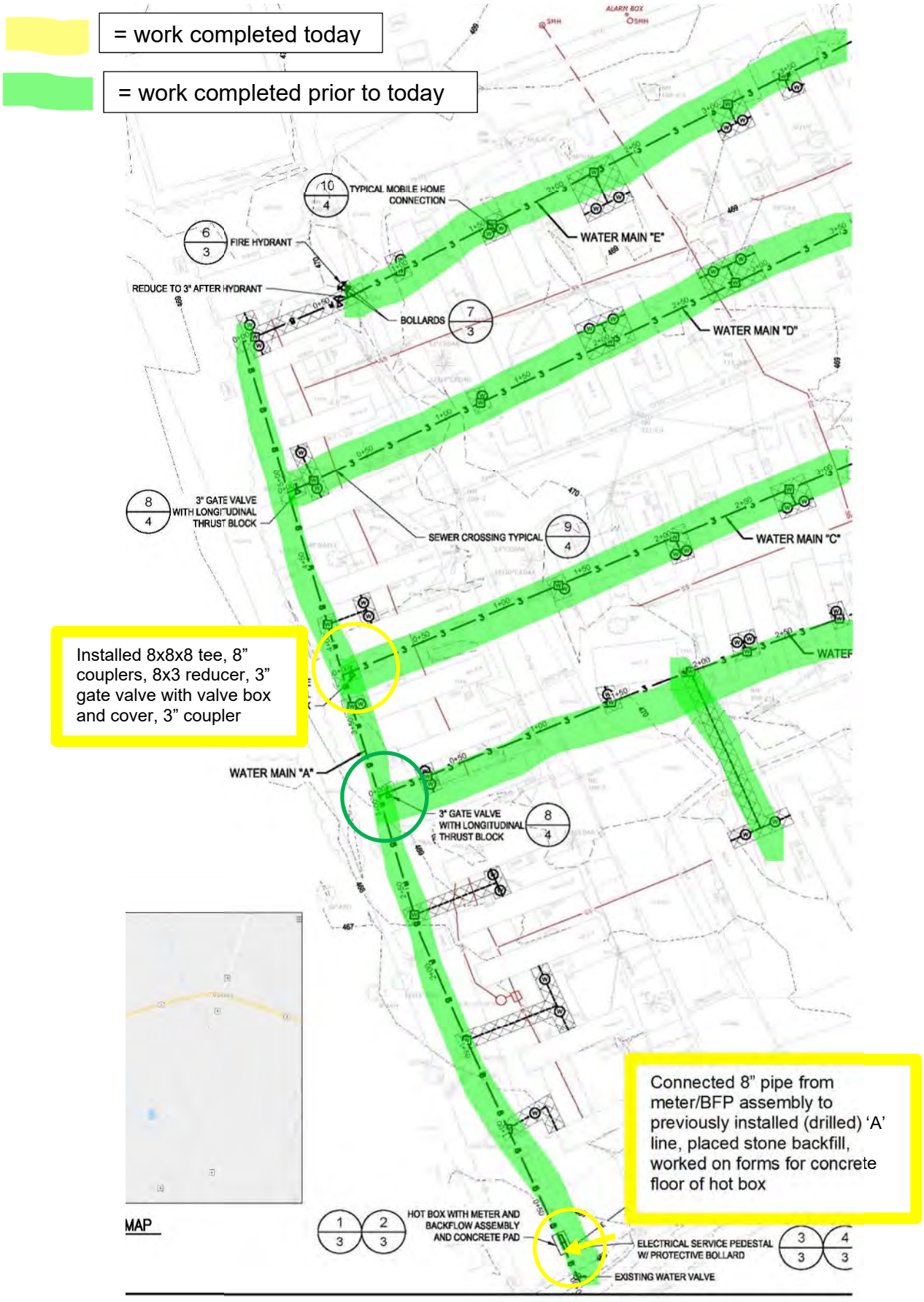
Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

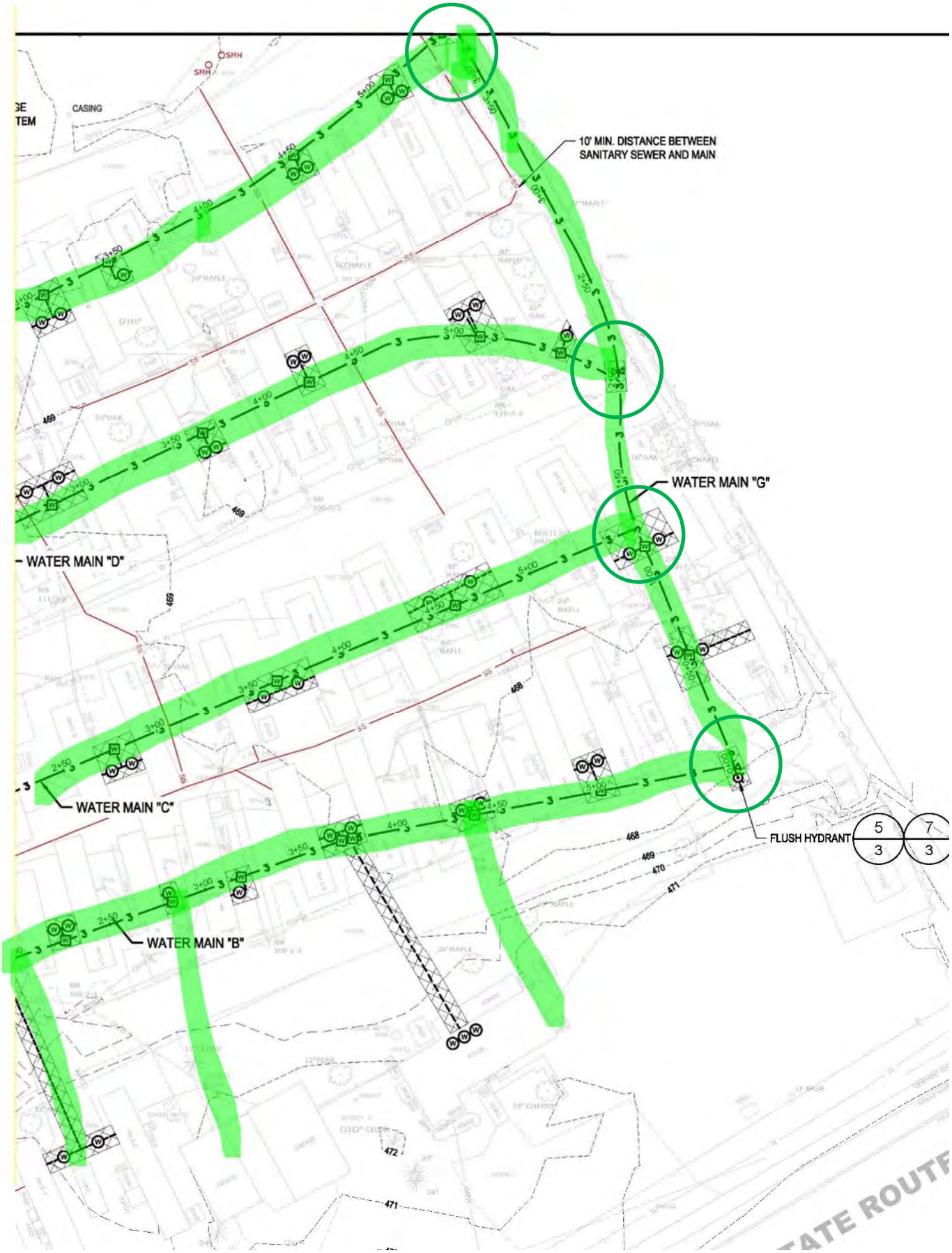
Project Schedule Comments

Issues Pending

Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.


= work completed today
= work completed prior to today
TYPICAL MOBILE HOME CONNECTION
FIRE HYDRANT
REDUCE TO 3" AFTER HYDRANT
BOLLARDS
WATER MAIN "E"
WATER MAIN "D"
WATER MAIN "C"
3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK
SEWER CROSSING TYPICAL
WATER MAIN "A"
Installed 8x8x8 tee, 8" couplers, 8x3 reducer, 3" gate valve with valve box and cover, 3" coupler
Connected 8" pipe from meter/BFP assembly to previously installed (drilled) 'A' line, placed stone backfill, worked on forms for concrete floor of hot box
HOT BOX WITH METER AND BACKFLOW ASSEMBLY AND CONCRETE PAD
ELECTRICAL SERVICE PEDESTAL W/ PROTECTIVE BOLLARD
EXISTING WATER VALVE
MAP


10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
5
3
7
3
CASING
SMH

Site Photographs (Descriptions Below)



Meter assembly at “hot box”.



Contractor excavators holding new meter assembly.



Existing steel natural gas Line ‘and gate valve installed by OCWA for Line ‘A’ connection.



Trench and Line ‘A’ riser on supply side of meter assembly.



The new 6” ø Sensus master meter with strainer, bypass, and backflow preventor.



Line ‘A’ to Line ‘C’ connection being installed.

Comments

Site Inspector(s): Steven Van Arnam	**Date: 10/08/2019**

DAILY INSPECTION REPORT

Report No. 013 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/09/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Mostly cloudy	AM	Sunny	PM
Temperature	44° *f*	AM	58° *f*	PM
Wind Direction	Calm	AM	Calm	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed pipe fitting hydrant assembly, HDPE pipe handling / cutting / fusing, and excavation / trench safety. Advanced Tree reviewed safe tree removal, including chain saw safety and lowering / chipping branches. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	4:30 PM

GES and Subcontractor NCC on site 7:00 AM, Chad Hill with GES conducted daily safety meeting, NCC has five workers on site, two Foremen, one Laborer, and two 'B' Operators. Entire crew worked together in the morning to complete the connection of Line 'E' to the 8" ø 'A' Line along the main driveway. They excavated, installed 8"x8"x6" TEE with two 8" fusion couplers, new 6" ø hydrant leg, 6" ø gate valve for guard valve on the hydrant, new Kennedy hydrant. On each side of the hydrant TEE they installed an 8" ø gate valve with valve box & cover, then an 8"x3" reducer and 3" fusion coupler on Line 'E'. Two workers broke off before they completed this connection to move to Line 'D' at Line 'A' to excavate for 3" HDPE connection to 8" ø HDPE mainline. This is the last connection of mainline and secondary mainline piping for the Mobile Home Park. They excavated, installed 8" x 8" x 8" TEE, two 8" couplings, an 8" x 3" reducer, and a 3" gate valve with valve box and cover. They extended tracer wires to marker riser, and backfilled excavation ending work at 4:15 PM. Advanced Tree Service continued tree removals along Line 'A', one tree was completed today. GES held safety meeting w/ tree crew, and all signed in prior to commencing tree work. NCC ended work for the day, secured all areas impacted by excavating, secured equipment and materials stored on site for the night, and left for the day at 4:30 PM. Advanced Tree Service left at 4:30 as well.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Chad Hill	GES	Project Superintendent	9
Tim Zubrzycki	North Country Contracting	Foreman	9
Tanner Sullivan	NCC	Foreman	9
Ken Burns	NCC	Laborer	9
Jirah Palmer	NCC	B Operator	9
Marty Jones	NCC	B Operator	9
Jeff Harrington	Advanced Tree Service	Owner	8
Jay Acker	"	Laborer	8

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Caterpillar 420it rubber tire backhoe	North Country Contracting	1	8
Caterpillar 416it rubber tire backhoe	"	1	2
HDPE pipe electro fusion machine	"	1	2
7000 Kw generator	"	1	2
Caterpillar 304E Track Hoe	"	1	8
Caterpillar 308 Track Hoe	"	1	8
Plate compactor	"	1	2
Cat 289C Skid Steer Loader	"	1	8
Hitachi EDX120 Track hoe	"	1	0
Bucket truck	Advance Tree Service	2	8
Skid Steer	"	1	4
Tree Chipper	"	1	6

Material Description	Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
8" ø HDPE pipe	X					
8" ø Couplings	X					
8"x8"x8" TEE	X					
Item 4 bedding material	X					
Tracer wire	X					
3" gate valve w/ valve box & cover	X					
8" x 3" reducer	X					
3" coupling	X					
Rhino marker box	X					
Kennedy Hydrant	X					
Hydrant marker flag	X					
(2) 8" Gate valve w/ valve box	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

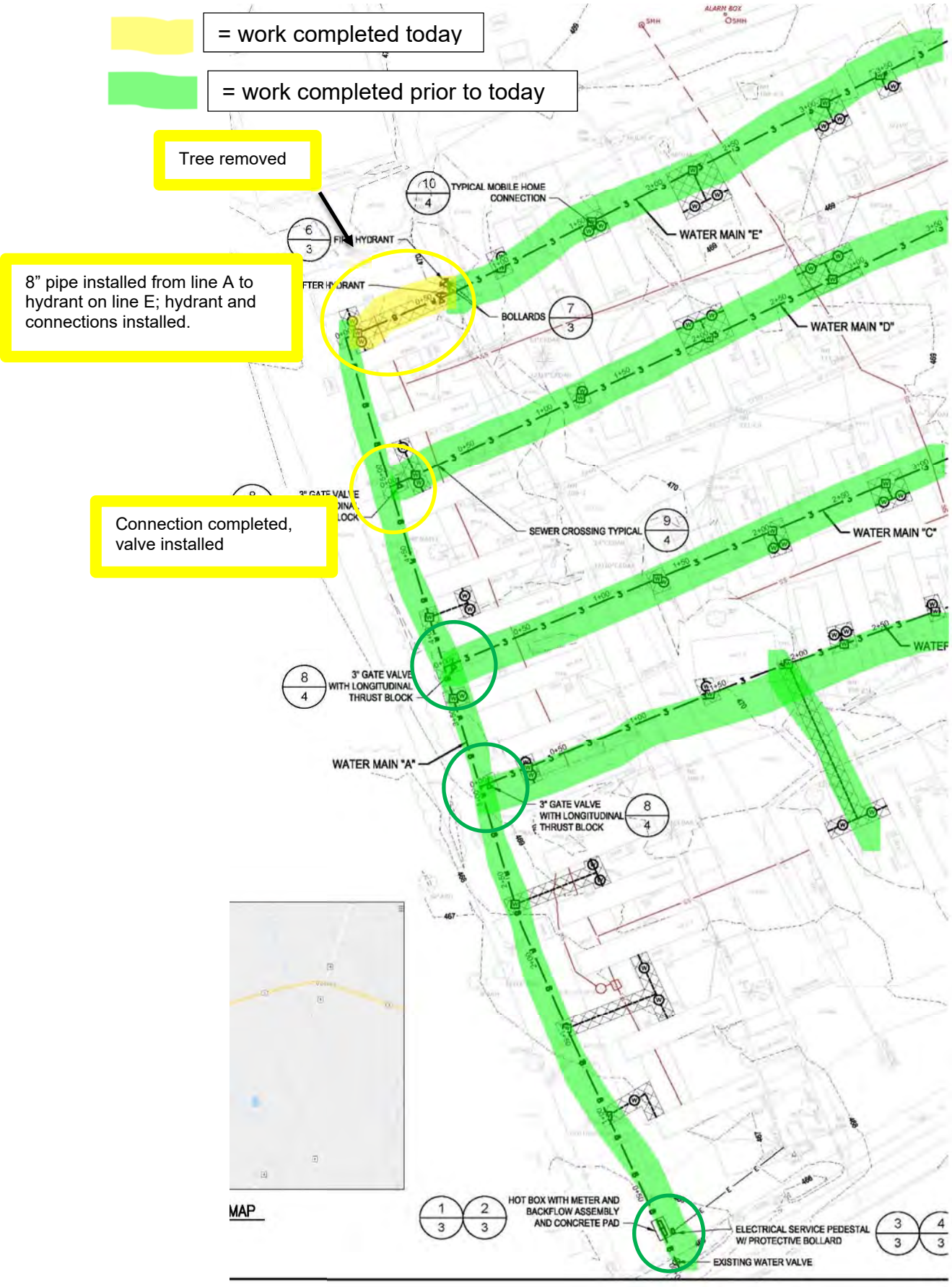
Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

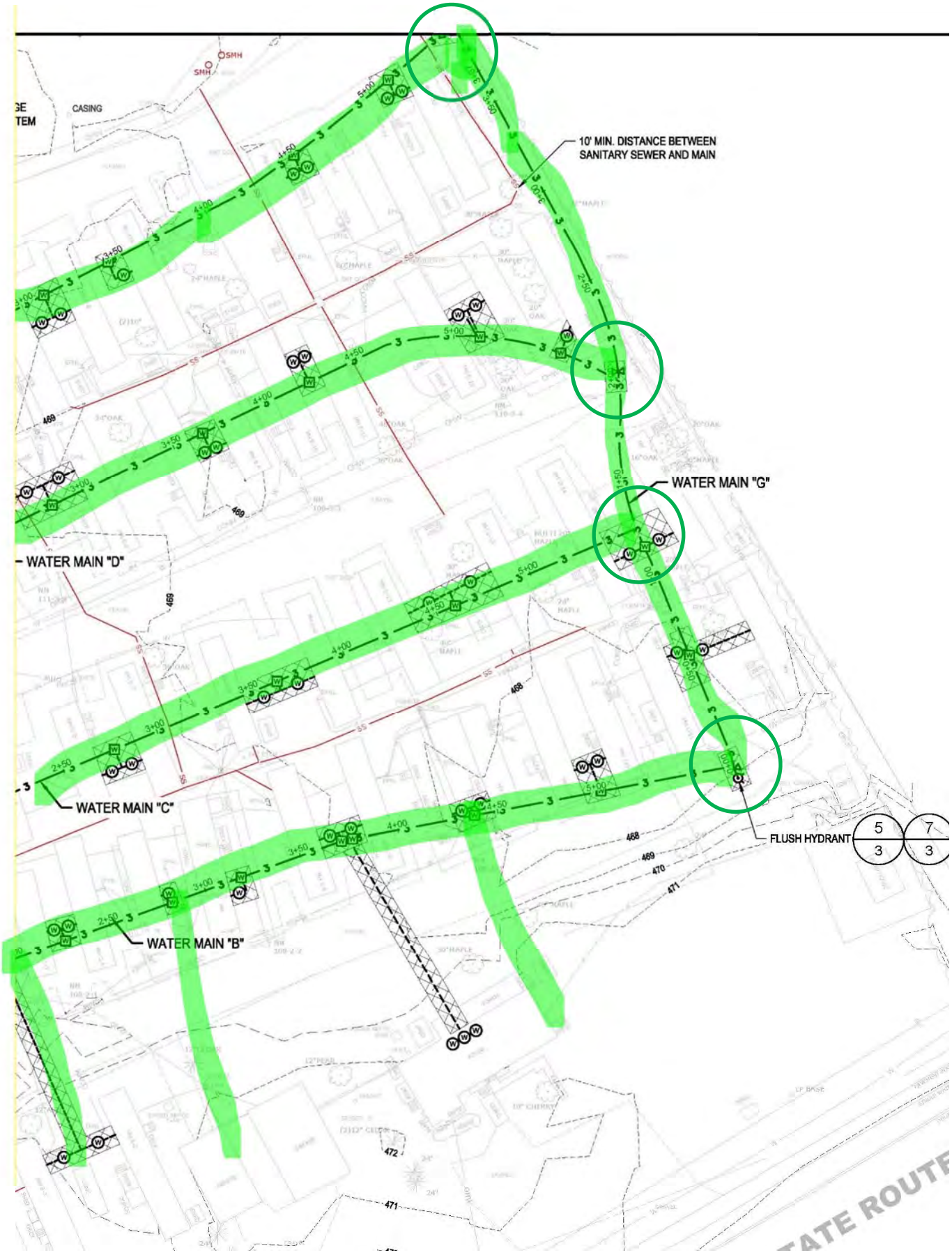
Project Schedule Comments

Issues Pending

Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.


= work completed today
= work completed prior to today
Tree removed
8" pipe installed from line A to hydrant on line E; hydrant and connections installed.
Connection completed, valve installed
TYPICAL MOBILE HOME CONNECTION
WATER MAIN "E"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "A"
BOLLARDS
SEWER CROSSING TYPICAL
3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK
HOT BOX WITH METER AND BACKFLOW ASSEMBLY AND CONCRETE PAD
ELECTRICAL SERVICE PEDESTAL W/ PROTECTIVE BOLLARD
EXISTING WATER VALVE
MAP


10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
5
3
7
3
SMH
CASING



Excavation for Line ‘A’ 8” HDPE connection to 3”.



Contractor excavation for new hydrant, 8”, and 3” for Line ‘E’.

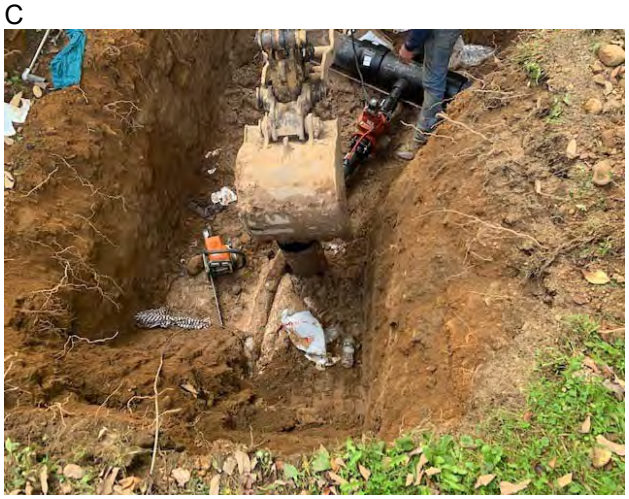


Line ‘A’ with gate valves on either side of hydrant TEE. 6” G.V. and new Kennedy hydrant.



Trench and Line ‘E’ off 8”x3” reducer and two fused on 45° bends.

C



Connection of Line ‘E’ 3” HDPE to 8” HDPE Line ‘A’, all mainline connections are completed now.



Advanced Tree Service removing tree.

Comments	
Site Inspector(s): Steven Van Arnam	**Date: 10/09/2019**

DAILY INSPECTION REPORT

Report No. 014 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/10/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Clear, sunny	AM	Sunny	PM
Temperature	41° *f*	AM	58° *f*	PM
Wind Direction	Calm	AM	Calm	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed excavation for services, HDPE service pipe handling / cutting / connections and excavation for meter pits. Advanced Tree reviewed safe tree removal, including chain saw safety and lowering / chipping branches. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	5:30 PM

GES and Subcontractor NCC on site 7:00 AM. Chad Hill with GES conducted daily safety meeting, NCC has six workers on site, Water Line Testing/ disinfection Technician, two Foremen, one Laborer, and two 'B' Operators. Advanced Tree Service has two workers on site, they arrived at 8:00 AM and signed into the HASP. Today NCC crews are working to begin service line installations, assembling meter pits, and a Technician is filling and flushing water mains to begin pressure testing. Progress Meeting No. 2 was held at 10:00 AM, and following the meeting we toured the project site, William Havener, Megan Miller, Scott McDonald, Jeff Proulx. Reviewed damaged drywell with Oswego County Health Dept. Rep. William Havener. It was noted that CHMHP's Owner Todd Redhead is permitted to replace the existing damaged drywell "In kind" with an updated new Seepage Pit as an equal to the exiting outdated and damaged unit. NCC will submit 60" ø Precast Manhole structure with open bottom and weeps, installed with Mirafi fabric, and suitable stone backfill around the structure. Reviewed first installed meter pit at Mobile home MH A-8, noted Park Owner requested additional 1" ball valve shutoff under mobile home for resident use in lieu of curb stop. Crew continued to install meter pits at mobile homes D-1, A-2, A-3, and A-4, before ending work for the day at 5:10 PM. Advanced Tree Service left site for the day at 4:30, NCC left at 5:30 PM.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Chad Hill	GES	Project Superintendent	9
Tim Zubrzycki	North Country Contracting	Foreman	9
Tanner Sullivan	NCC	Foreman	9
Ken Burns	NCC	Laborer	9
Jirah Palmer	NCC	B Operator	9
Marty Jones	NCC	B Operator	9
Terry Suova	NCC	Operator / Technician	8
Jay Acker	Advanced Tree Service	Laborer	8
Jeff Harrington	Advanced Tree Service	Foreman	8

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Caterpillar 420it rubber tire backhoe	North Country Contracting	1	8
Caterpillar 416it rubber tire backhoe	"	1	2
HDPE pipe electro fusion machine	"	1	2
7000 Kw generator	"	1	2
Caterpillar 304E Track Hoe	"	1	8
Caterpillar 308 Track Hoe	"	1	8
Plate compactor	"	1	2
Cat 289C Skid Steer Loader	"	1	8
Hitachi EDX120 Track hoe	"	1	0
Bucket truck	Advance Tree Service	2	8
Skid Steer	"	1	4
Tree Chipper	"	1	6

Material Description	Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
1" ø HDPE pipe	X					
1" ø Couplings	X					
3"x1" Saddle for service connection	X					
Item 4 bedding material	X					
Tracer wire	X					
Meter Pit	X					
1" curb stops	X					
Insulation	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

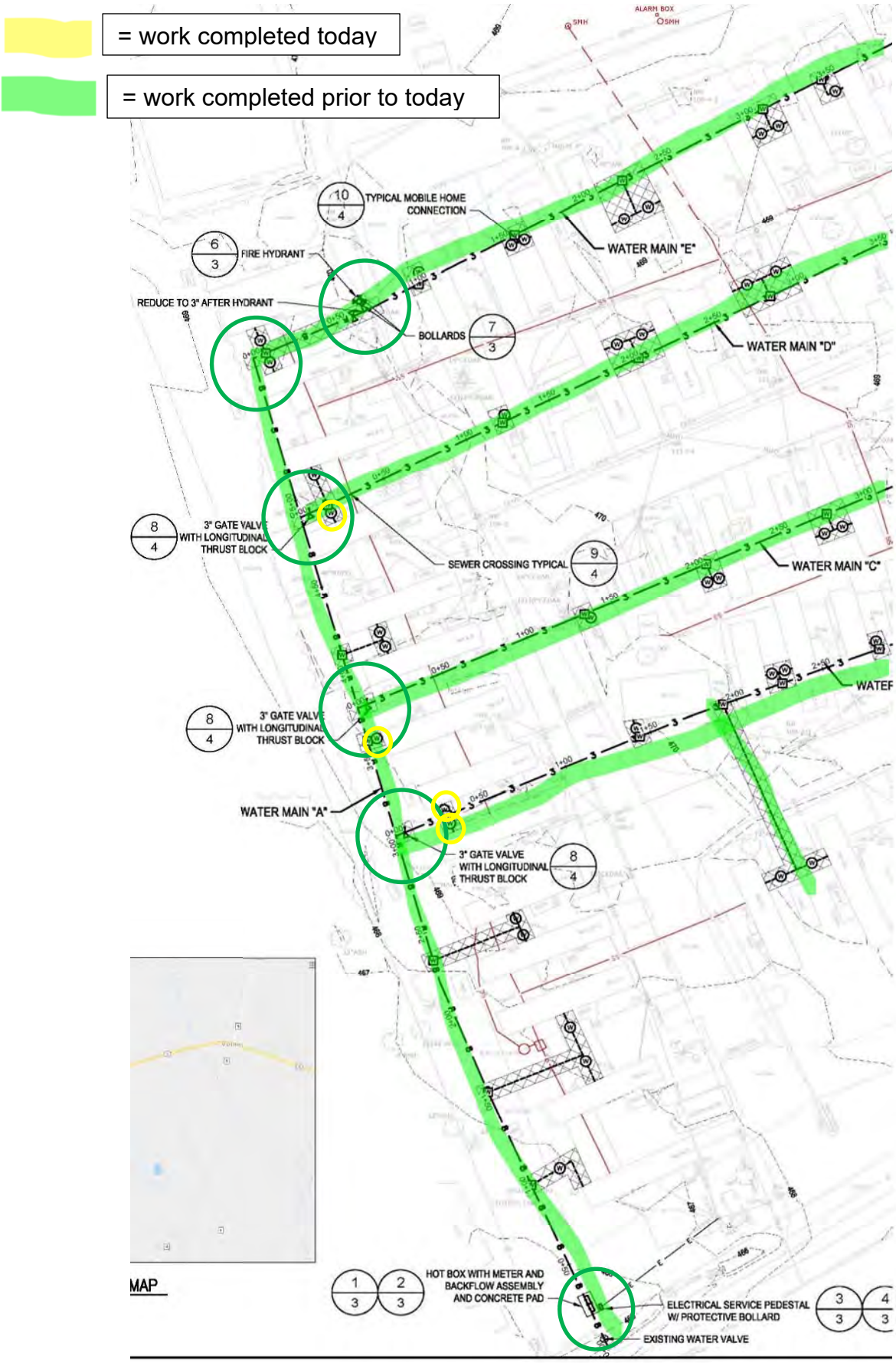
Name	Representing	Entered Exclusion/CRZ Zone	
William Havener	Oswego County Health Dept.	**Yes X**	**No**
Scott McDonald	GES	**Yes X**	**No**
Megan Miller	EA Engineers	**Yes X**	**No**
Jeff Proulx	NCC	**Yes X**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

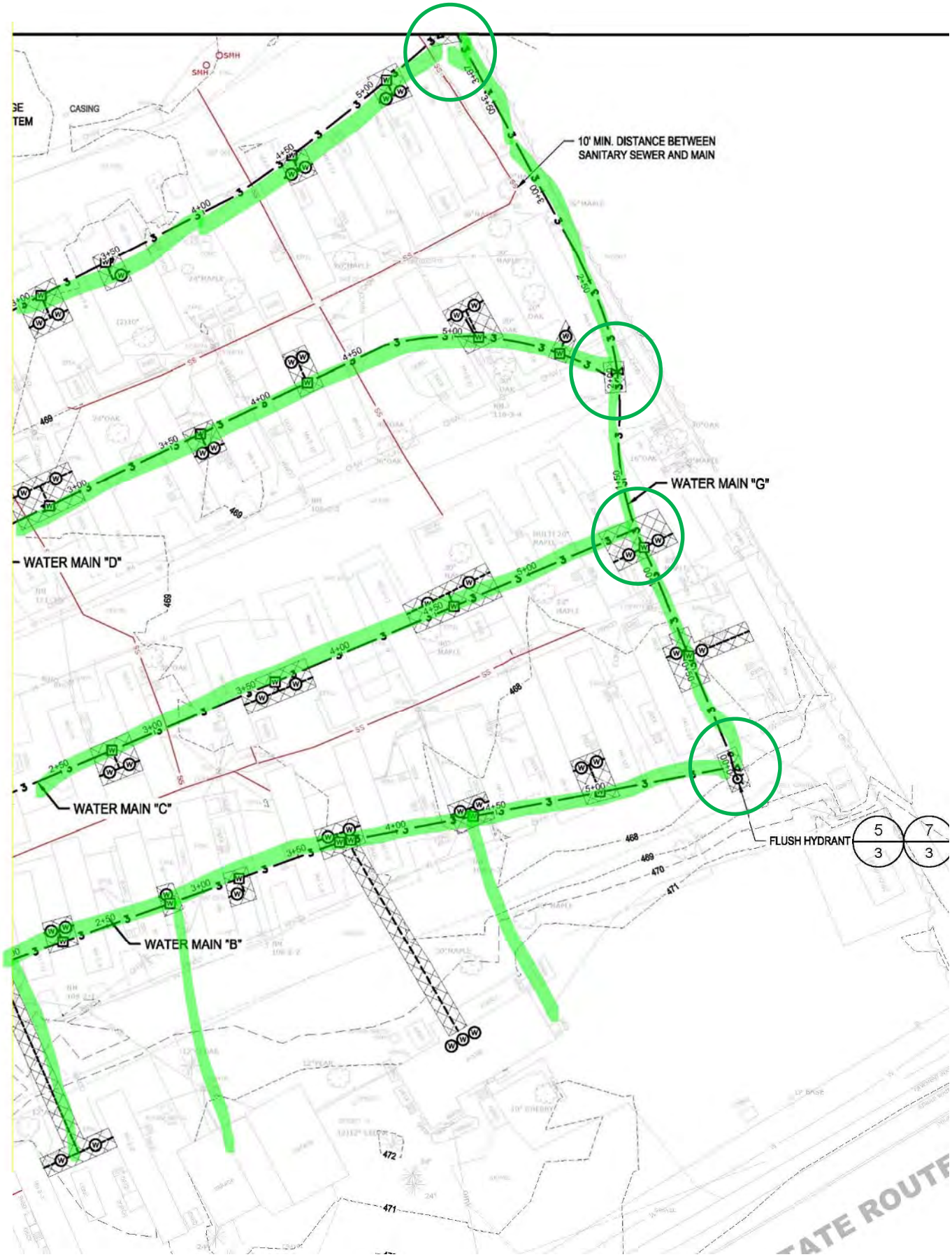
Project Schedule Comments

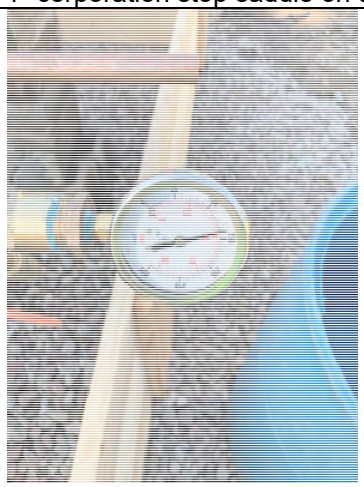
Issues Pending

Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.


= work completed today
= work completed prior to today
TYPICAL MOBILE HOME CONNECTION
FIRE HYDRANT
REDUCE TO 3" AFTER HYDRANT
BOLLARDS
WATER MAIN "E"
WATER MAIN "D"
WATER MAIN "C"
3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK
SEWER CROSSING TYPICAL
WATER MAIN "A"
HOT BOX WITH METER AND BACKFLOW ASSEMBLY AND CONCRETE PAD
ELECTRICAL SERVICE PEDESTAL W/ PROTECTIVE BOLLARD
EXISTING WATER VALVE
MAP


10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
5
3
7
3
CASING
SMH

	
72” Tall meter pits fabricated for installation.	1” corporation stop saddle on 3” HDPE Line ‘D’.
	
Meter pit, two curb stops, and feed to underside of mobile home.	Water main hydrostatic pressure testing.
C 	
Water meter, wiring, and radio transmitter for auto reading water metering system.	Watertight metering wiring connections.
Comments	

Site Inspector(s): Steven Van Arnam	**Date: 10/10/2019**

DAILY INSPECTION REPORT

Report No. 015 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/11/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Clear, sunny	AM	Sunny	PM
Temperature	40° *f*	AM	65° *f*	PM
Wind Direction	Calm	AM	Calm	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed excavation for services, HDPE service pipe handling / cutting / connections and excavation for meter pits. Advanced Tree reviewed safe tree removal, including chain saw safety and lowering / chipping branches. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	3:30 PM

GES and Subcontractor NCC on site 7:00 AM. Chad Hill with GES conducted daily safety meeting, NCC has six workers on site, Foreman doing water line chlorine injection for disinfection, two Foremen, one Laborer, and two 'B' Operators. Advanced Tree Service has two workers on site, they arrived at 7:20 AM and signed into the HASP. Today NCC crews are assembling and installing meter pits, and a Technician is chlorinating new water mains Lines 'A', 'B', 'C', 'D', 'E', and 'G', he is mixing a solution of chlorine/water for injection into the main at metering assembly and will flow down Line 'A' to Line 'E', down Line 'G' to each of the three legs, in order, by opening the individual 3" gate valves until the proper chlorine residual is achieved at all sampling points installed at nearest mobile home tapping point. Meter pit crew lacks some parts and will install only a couple meter pits today, they started at Mobile Home A-6, installing 3" saddle on 3" HDPE line, 1" HDPE service pipe, two curb stops, meter pit, meter, insulation and new service pipe up under the Unit for connection later on. They also installed meter pit at Mobile Home C-2, before ending work for the day at 3:10 PM, and leaving at 3:30 PM. Advanced Tree Service completed removing 48" ø ABB red oak tree at mobile home F-4 before leaving the site for the weekend at 3:30 PM.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Chad Hill	GES	Project Superintendent	8
Tim Zubrzycki	North Country Contracting	Foreman	8
Tanner Sullivan	NCC	Foreman	8
Ken Burns	NCC	Laborer	8
Jirah Palmer	NCC	B Operator	8
Marty Jones	NCC	B Operator	8
Terry Suova	NCC	Operator / Technician	4
Jay Acker	Advanced Tree Service	Laborer	8
Jeff Harrington	Advanced Tree Service	Foreman	8

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Caterpillar 420it rubber tire backhoe	North Country Contracting	1	8
Caterpillar 416it rubber tire backhoe	"	1	2
HDPE pipe electro fusion machine	"	1	2
7000 Kw generator	"	1	2
Caterpillar 304E Track Hoe	"	1	8
Caterpillar 308 Track Hoe	"	1	8
Plate compactor	"	1	2
Cat 289C Skid Steer Loader	"	1	8
Hitachi EDX120 Track hoe	"	1	0
Bucket truck	Advance Tree Service	2	8
Skid Steer	"	1	4
Tree Chipper	"	1	6

Material Description	Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
1" ø HDPE pipe	X					
1" ø Couplings	X					
3"x1" Saddle for service connection	X					
Item 4 bedding material	X					
Tracer wire	X					
Meter Pit	X					
1" curb stops	X					
Insulation	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

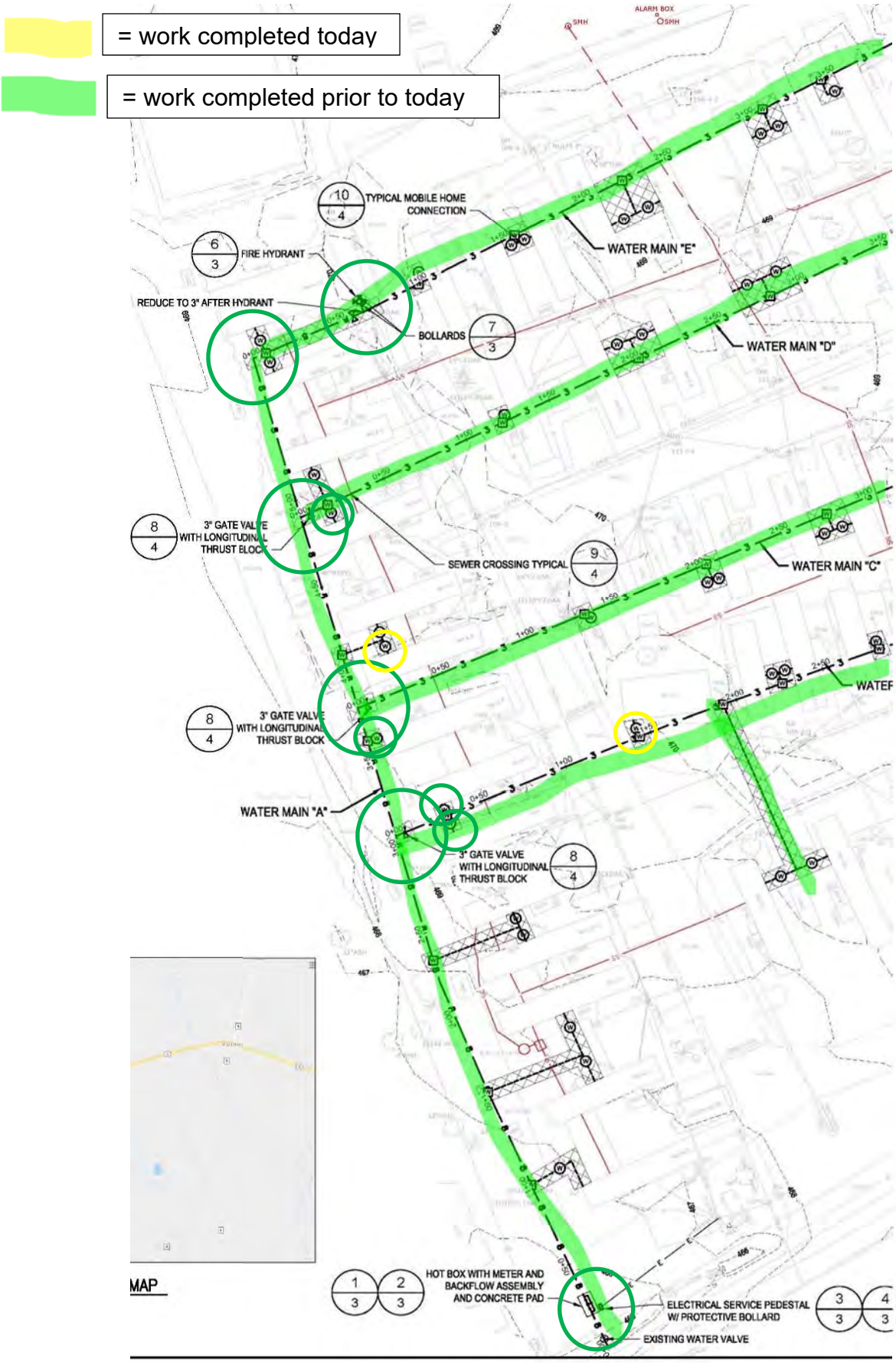
Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

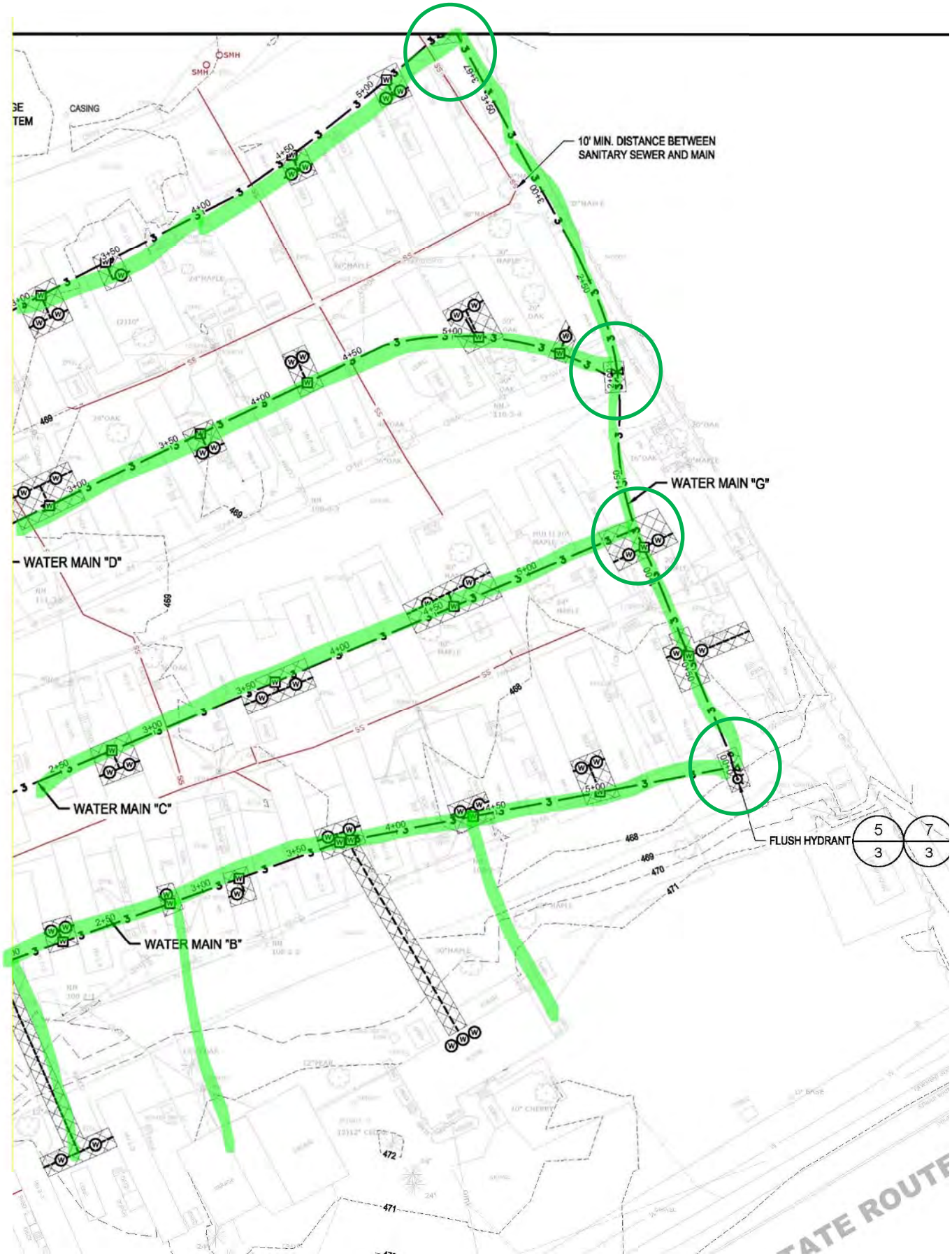
Project Schedule Comments

Issues Pending

Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.


= work completed today
= work completed prior to today
TYPICAL MOBILE HOME CONNECTION
FIRE HYDRANT
REDUCE TO 3" AFTER HYDRANT
BOLLARDS
WATER MAIN "E"
WATER MAIN "D"
WATER MAIN "C"
3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK
SEWER CROSSING TYPICAL
WATER MAIN "A"
HOT BOX WITH METER AND BACKFLOW ASSEMBLY AND CONCRETE PAD
ELECTRICAL SERVICE PEDESTAL W/ PROTECTIVE BOLLARD
EXISTING WATER VALVE
MAP


10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
5
3
7
3
CASING
SMH

	
Cat 308 excavator used for meter pit installation.	Cat 304 excavator and Cat skid steer used for excavation, backfill, and cleanup.
	
1” HDPE feed to underside of mobile home, this tap will be used for sampling.	3” HDPE Water main, with 1” electro fused service saddle connection installed.
C 	
Side by side meter pit installation.	Water meter pit installed, being backfilled.

Comments	
Site Inspector(s): Steven Van Arnam	**Date: 10/11/2019**

DAILY INSPECTION REPORT

Report No. 016 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/14/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Cloudy	AM	Mostly cloudy	PM
Temperature	46° *f*	AM	53° *f*	PM
Wind Direction	Calm	AM	Calm	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed excavation for services, HDPE service pipe handling / cutting / connections and excavation for meter pits. Advanced Tree reviewed safe tree removal, including chain saw safety and lowering / chipping branches. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	6:00 AM	Departed Site:	3:30 PM

GES and Subcontractor NCC on site 6:00 AM. Technician Terry Souva w/ NCC is sampling waterline for disinfection. Held brief safety meeting, all present at 6:00 AM signed in. Sampled water at four locations for chlorine levels in ppm, Line 'A' at the Hydrant adjacent to Mobile Home A-12, Line 'E' was sampled at the service line to Mobile Home A-12, Line 'D' was sampled at Mobile Home A-8, Line 'C' at Mobile Home A-4, and Line 'B' sampled at Mobile Home A-2. All lines sampled indicated that the 24-hour residual was 70 ppm. This is greater than required 25 ppm in the regulation and is within the AWWA guidelines. Tomorrow morning the Contractor will remove samples for laboratory analysis for bacteria. Terry Souva left the site for another project.

At 7:00 AM Chad Hill with GES conducted daily safety meeting with NCC's four workers, Tanner Sullivan- Foreman, Ken Burns- Laborer, Jirah Palmer, and Marty Jones, both 'B' Operators. Today they are installing water service lines and meter pits today. Advanced Tree Service has one worker on site, he arrived at 7:55 AM and signed into the HASP, today he is grinding stump near Mobile Home A-12. NCC crew excavated at Mobile Home B-1 and B-2, they are installing meter pits, curb stops, and 1" HDPE service lines. The service crew lacks some parts and will install long side service to meter pits/apartment house in Row B today, no connections to the watermain. They completed work at the maintenance shops, and three-unit apartment house in the front row of the Mobile Home Park. They ended work for the day at 4:10 PM, secured equipment and materials, before leaving for the day at 4:30 PM. Advanced Tree Service left the site at 9:55 AM.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Chad Hill	GES	Project Superintendent	8
Tanner Sullivan	North Country Contracting	Foreman	8
Terry Souva	NCC	Foreman / Technician	3
Ken Burns	NCC	Laborer	8
Jirah Palmer	NCC	B Operator	8
Marty Jones	NCC	B Operator	8
Jeff Harrington	Advanced Tree Service	Foreman	2

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Caterpillar 420it rubber tire backhoe	North Country Contracting	1	4
Caterpillar 416it rubber tire backhoe	"	1	0
HDPE pipe electro fusion machine	"	1	0
7000 Kw generator	"	1	0
Caterpillar 304E Track Hoe	"	2	8
Caterpillar 308 Track Hoe	"	1	3
Plate compactor	"	1	2
Cat 289C Skid Steer Loader	"	1	4
Hitachi EDX120 Track hoe	"	1	0
Bucket truck	Advance Tree Service	2	0
Skid Steer	"	1	0
Tree Chipper	"	1	0
Stump Grinder	"	1	2

Material Description	Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
1" ø HDPE pipe	X					
1" ø Couplings	X					
Insulation	X					
Item 4 bedding material	X					
Tracer wire	X					
Meter Pit	X					
1" curb stops	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Project Schedule Comments

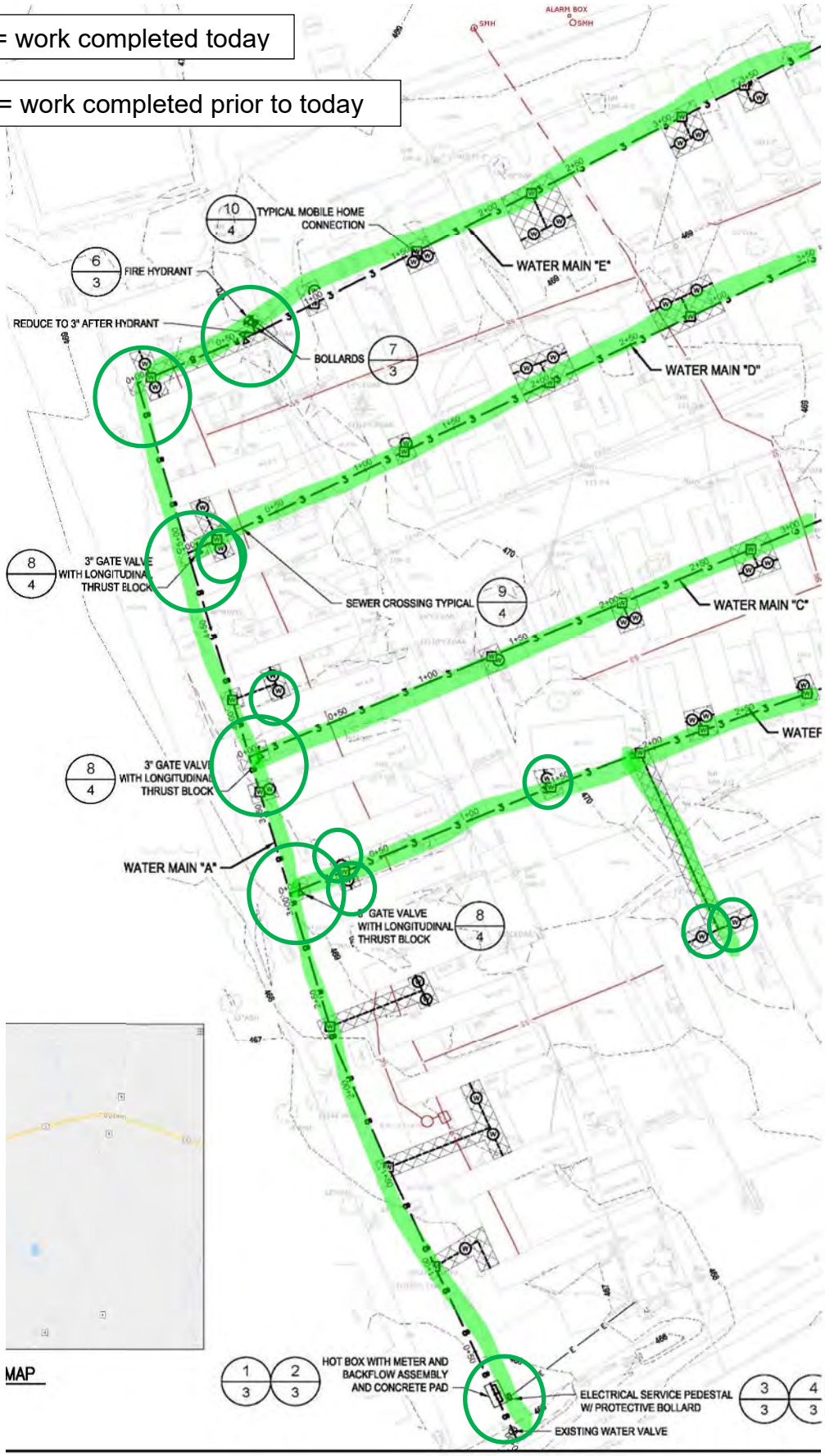
Issues Pending

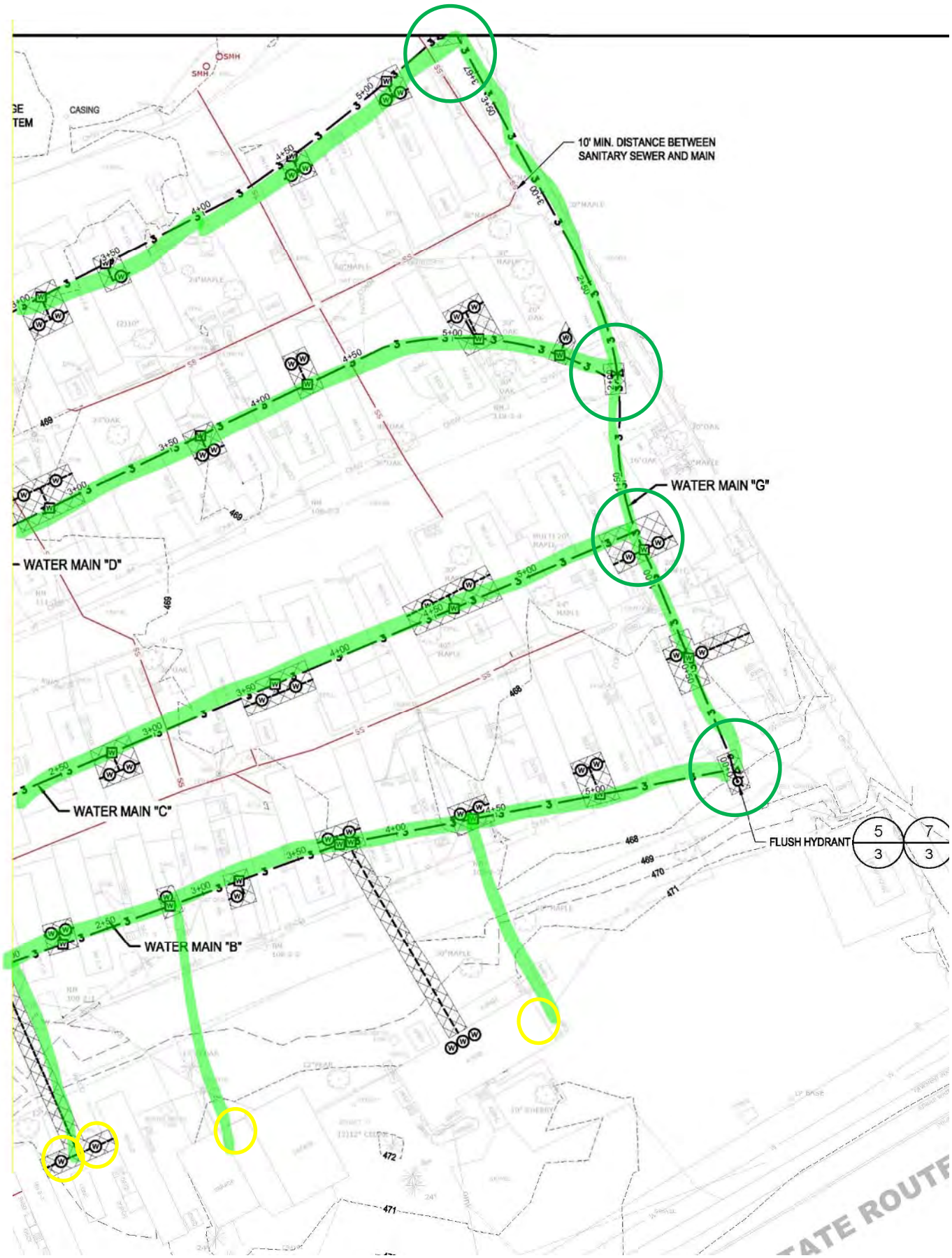
Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

= work completed today

= work completed prior to today




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
5
3
7
3
CASING
SMH



Verifying chlorine residual at end of disinfection period.



Mobile Home B-1 following installation of meter pit.



Mobile Home B-2, meter pit and curb stops.



1" HDPE lines to maintenance shops, after meter pit.



Service to year-round shop.



Water meter pit installed, being backfilled.

Comments

Site Inspector(s): Steven Van Arnam	**Date: 10/14/2019**

DAILY INSPECTION REPORT

Report No. 017 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/15/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Clear, sunny	AM	Mostly sunny	PM
Temperature	43° *f*	AM	57° *f*	PM
Wind Direction	Calm	AM	West 5-10 MPH	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed excavation for services and meter pits, HDPE service pipe handling / cutting / connections and meter installation in pits. Advanced Tree reviewed safe tree removal, including chain saw safety and lowering / chipping branches. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	6:00 AM	Departed Site:	3:30 PM

GES and Subcontractor NCC on site 7:00 AM. Technician Terry Souva w/ NCC is pulling water samples this morning per option B of the AWWA standard for waterline disinfection. Flushed and sampled water at four locations until chlorine levels were at supply line levels of 0.40 +/- ppm. 8:00 AM began pulling samples for analytical testing. Samples taken at Line 'A' at the Hydrant adjacent to Mobile Home A-12, Line 'E' was sampled at the service line to Mobile Home A-12, Line 'D' was sampled at Mobile Home A-8, Line 'C' at Mobile Home A-4, and Line 'B' sampled at Mobile Home A-2. Following completion of gathering the first set of samples, all sample points had another set of samples removed, more than 15 minutes after the first set of samples were gathered. Chain of custody forms were filled out and the Technician left to deliver samples to Converse Labs in Watertown NY.

NCC's five on site workers today were, Tanner Sullivan- Foreman, Tim Zubrzycki- Foreman, Ken Burns- Laborer, Jirah Palmer, and Marty Jones, both 'B' Operators. Today they are installing water service lines and meter pits along Line 'B'. Advanced Tree Service has two workers on site, they arrived at 7:55 AM and signed into the HASP, today they are cutting and grinding trees near Mobile Home A-12. NCC crew excavated at Mobile Homes C-10, C-11, C-12, C-13, C-14, and C-15, they are installing meter pits, curb stops, and 1" HDPE service lines. The service crew lacks corporation stops for tying 1" HDPE lines into the 3" mainline. They ended work for the day at 4:50 PM, secured equipment and materials, before leaving for the day at 5:30 PM. Advanced Tree Service grinded one tree stump today, he is shorthanded and did not cut down any trees today, and left the site at 5:30 PM.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Chad Hill	GES	Project Superintendent	10
Tanner Sullivan	North Country Contracting	Foreman	10
Terry Souva	NCC	Foreman / Technician	3
Ken Burns	NCC	Laborer	10
Jirah Palmer	NCC	B Operator	10
Marty Jones	NCC	B Operator	10
Jeff Harrington	Advanced Tree Service	Foreman	10
Tim Zubrzycki	NCC	Foreman	10
Jay Acker	Advanced Tree Service	Laborer	10

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Caterpillar 420it rubber tire backhoe	North Country Contracting	1	9
Caterpillar 416it rubber tire backhoe	"	1	0
HDPE pipe electro fusion machine	"	1	0
7000 Kw generator	"	1	0
Caterpillar 304E Track Hoe	"	2	10
Caterpillar 308 Track Hoe	"	1	8
Plate compactor	"	1	2
Cat 289C Skid Steer Loader	"	1	6
Hitachi EDX120 Track hoe	"	1	0
Bucket truck	Advance Tree Service	2	9
Skid Steer	"	1	0
Tree Chipper	"	1	8
Stump Grinder	"	1	0

Material Description	Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
1" ø HDPE pipe	X					
1" ø Couplings	X					
Insulation	X					
Item 4 bedding material	X					
Tracer wire	X					
Meter Pits	X					
1" curb stops	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

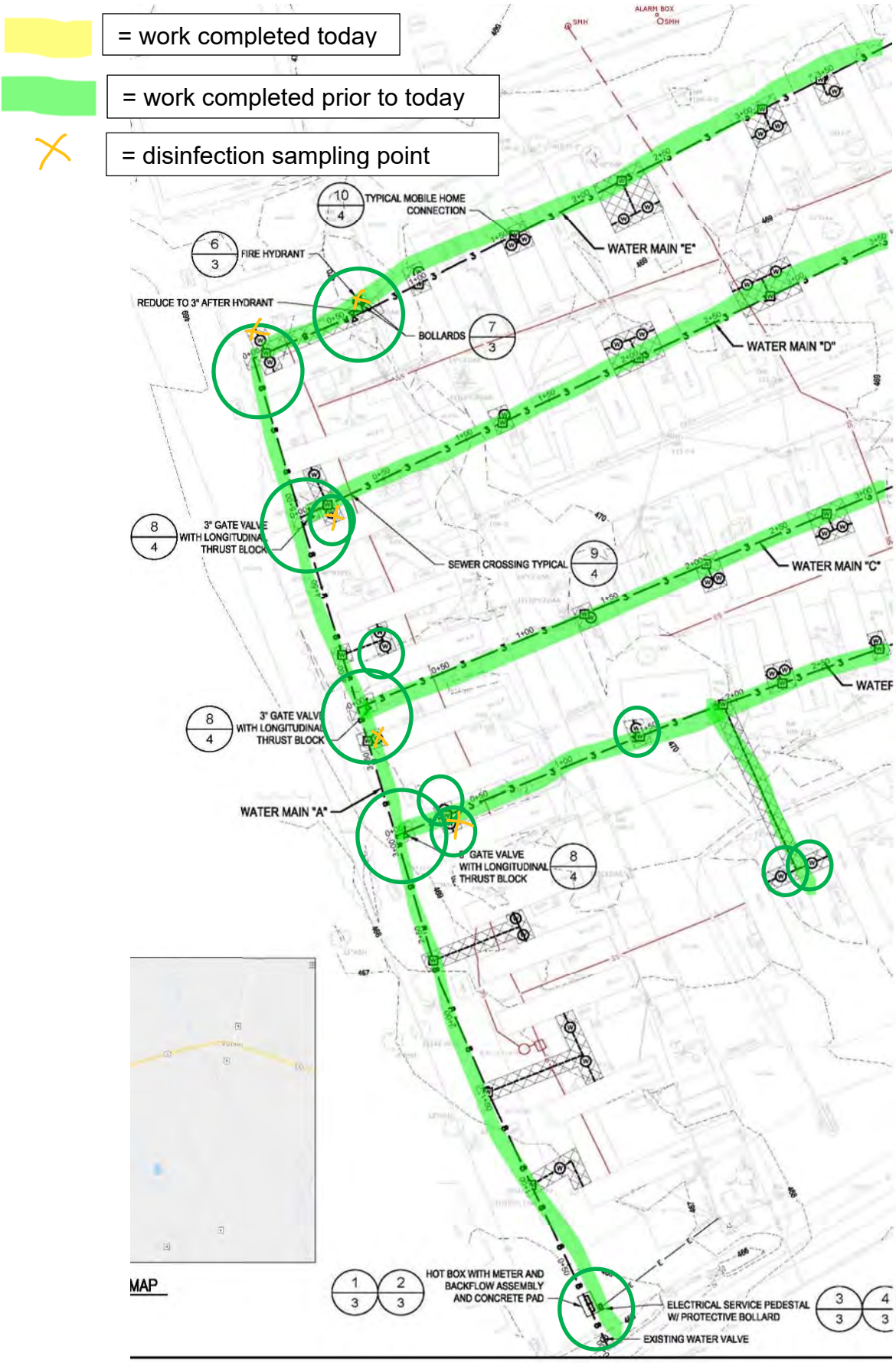
Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

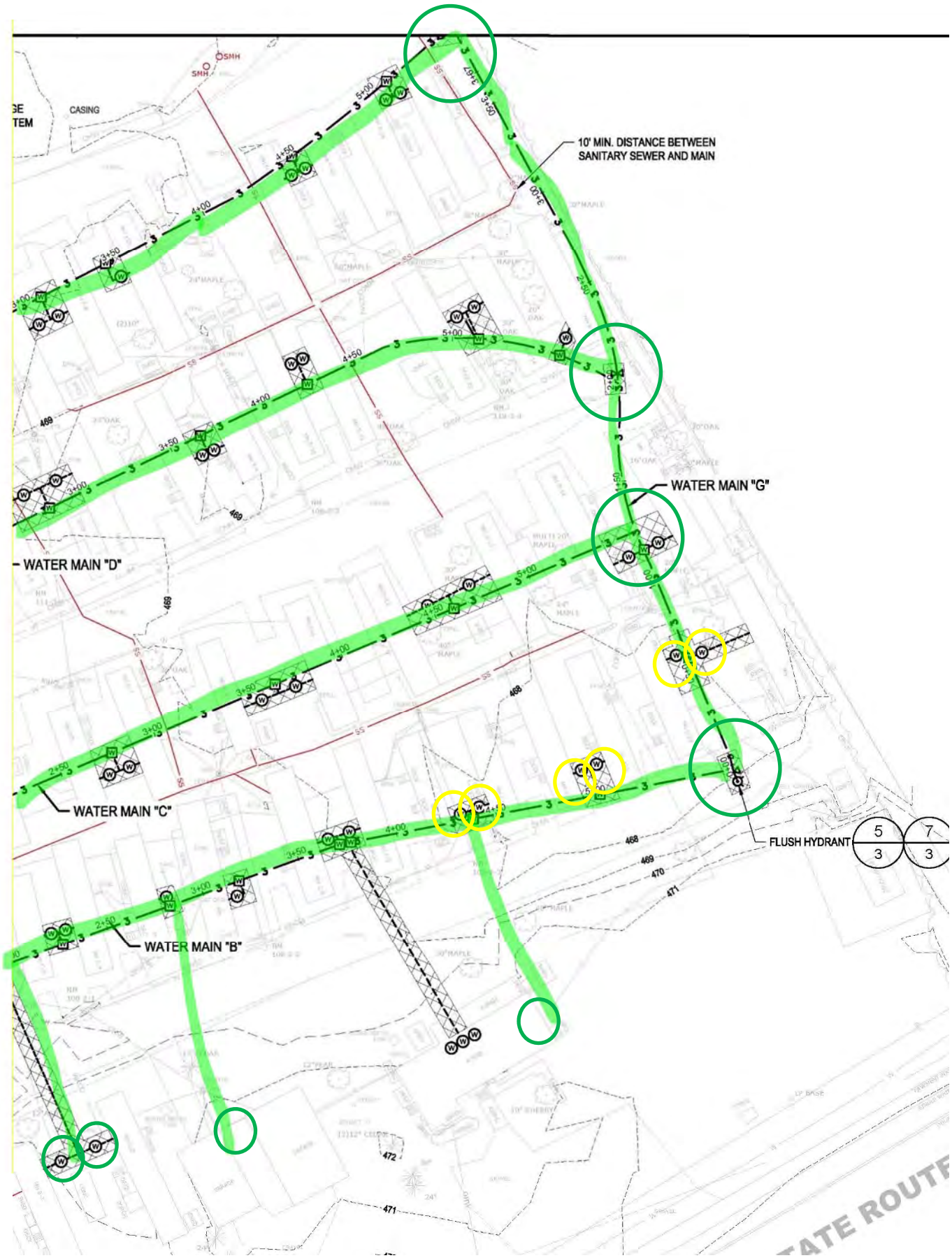
Project Schedule Comments

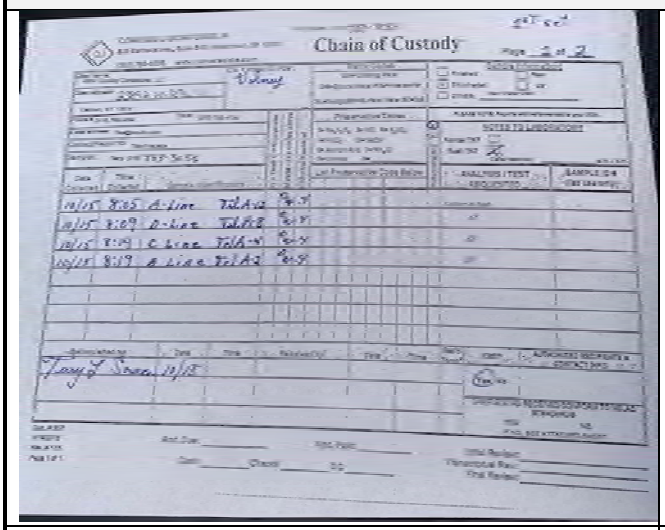
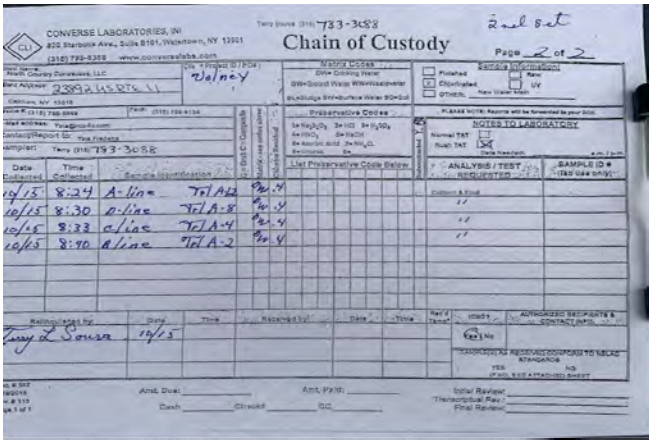
Issues Pending

Interaction with Public, Property Owners, Media, etc.

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.


= work completed today
= work completed prior to today
= disinfection sampling point
TYPICAL MOBILE HOME CONNECTION
FIRE HYDRANT
REDUCE TO 3" AFTER HYDRANT
BOLLARDS
WATER MAIN "E"
WATER MAIN "D"
WATER MAIN "C"
3" GATE VALVE WITH LONGITUDINAL THRUST BLOCK
SEWER CROSSING TYPICAL
WATER MAIN "A"
GATE VALVE WITH LONGITUDINAL THRUST BLOCK
HOT BOX WITH METER AND BACKFLOW ASSEMBLY AND CONCRETE PAD
ELECTRICAL SERVICE PEDESTAL W/ PROTECTIVE BOLLARD
EXISTING WATER VALVE
MAP


10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
5
3
7
3
CASING
SMH

	
Chain of custody sheets for water samples.	Chain of custody sheets for water samples.

Comments
Due to issues with photograph transfer no other pictures could be added to the inspection report today. Situation has been resolved for tomorrow. Steven Van Arnam

Site Inspector(s): Steven Van Arnam	**Date: 10/15/2019**

DAILY INSPECTION REPORT

Report No. 018 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/16/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Cloudy	AM	Cloudy, rain 2:00 PM	PM
Temperature	58° *f*	AM	57° *f*	PM
Wind Direction	SE, 15-20 MPH	AM	West 15-20 MPH	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed excavation for services and meter pits, HDPE service pipe handling / cutting / connections and meter installation in pits. Advanced Tree reviewed safe tree removal, including chain saw safety and lowering / chipping branches. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	3:30 PM

GES and Subcontractor NCC on site 7:00 AM. NCC has five workers on site today. They include Tanner Sullivan- Foreman, Tim Zubrzycki- Foreman, Ken Burns- Laborer, Jirah Palmer, and Marty Jones, both 'B' Operators. Today they are continuing installation of water service lines, meter setting pits, and water meters along water Line 'B'. Advanced Tree Service is not on site due to gusty winds and anticipated heavy rain. NCC crew excavated at Mobile Homes C-8, C-9, and C-7, working from back to front, and they installed 3-meter pits, multiple curb stops, 3"x1" saddle corporation stops, and 1" HDPE service lines. They are connecting corporation stops, tying in 1" HDPE lines onto the 3" mainline, and leaving curb stops in the "OFF" position until they begin final connections. Rain began at 2:00 PM, Heavy rain from 2:30 PM on. They completed this work on three Homes on the second row of the Mobile Home Park and ended work for the day at 3:10 PM, secured equipment and materials, before leaving for the day at 3:30 PM.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Chad Hill	GES	Project Superintendent	9
Tanner Sullivan	North Country Contracting	Foreman	9
Tim Zubrzycki	NCC	Foreman / Technician	9
Ken Burns	NCC	Laborer	9
Jirah Palmer	NCC	B Operator	9
Marty Jones	NCC	B Operator	9

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Caterpillar 420it rubber tire backhoe	North Country Contracting	1	6
Caterpillar 416it rubber tire backhoe	"	1	0
HDPE pipe electro fusion machine	"	1	2
7000 Kw generator	"	1	2
Caterpillar 304E Track Hoe	"	2	10
Caterpillar 308 Track Hoe	"	1	8
Plate compactor	"	1	2
Cat 289C Skid Steer Loader	"	1	6
Hitachi EDX120 Track hoe	"	1	0
Bucket truck	Advance Tree Service	2	9
Skid Steer	"	1	0
Tree Chipper	"	1	8
Stump Grinder	"	1	0

Material Description	Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
1" ø HDPE pipe	X					
1" ø Couplings	X					
Insulation	X					
Item 4 bedding material	X					
Tracer wire	X					
Meter Pits	X					
1" curb stops	X					
Meter pit horn assembly w/ PRV	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

Project Schedule Comments

Issues Pending

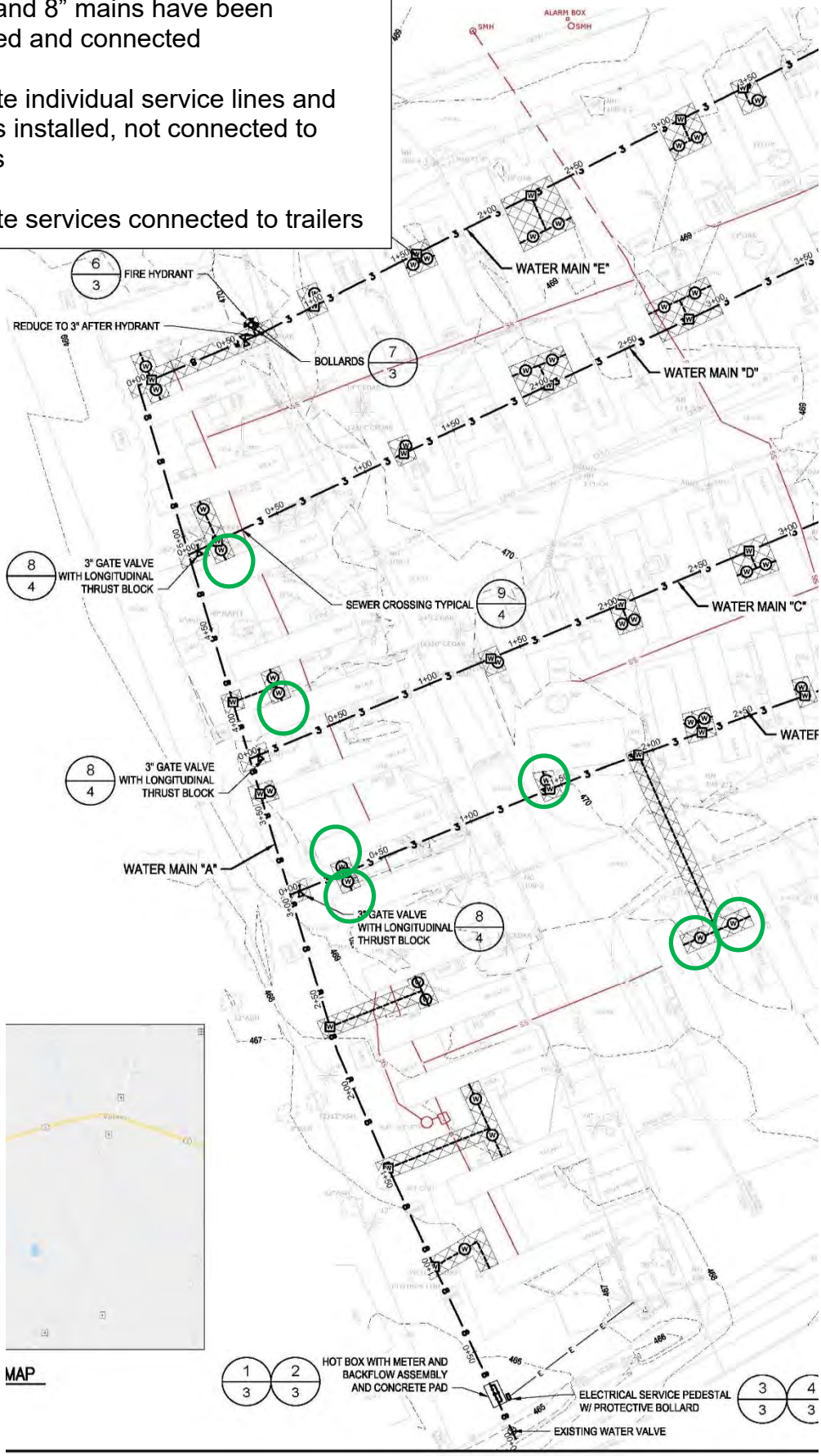
Interaction with Public, Property Owners, Media, etc.

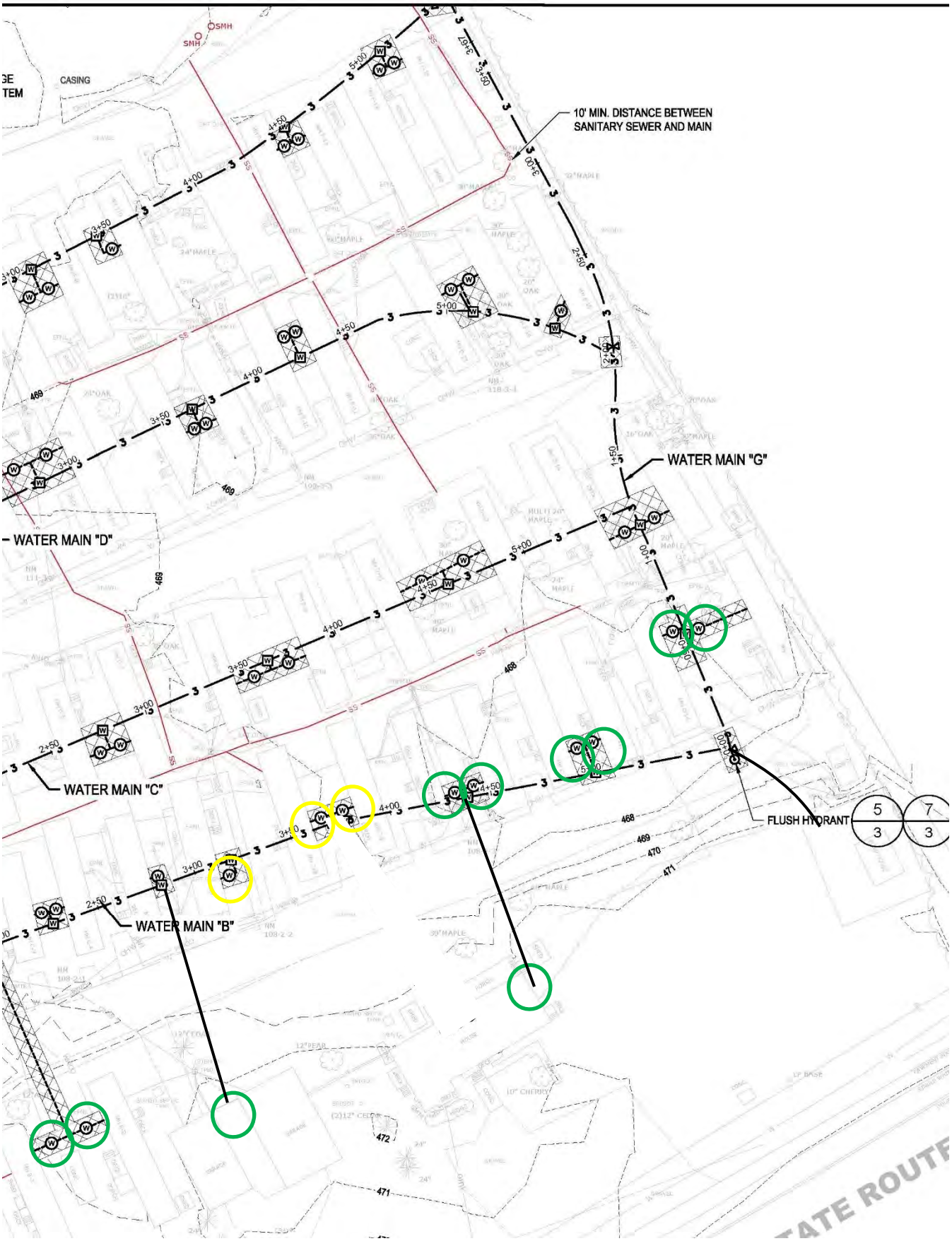
Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

All 3" and 8" mains have been installed and connected

Indicate individual service lines and meters installed, not connected to trailers

Indicate services connected to trailers




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
CASING
SMH

	
Water service line to Mobile Homes C-8 & C-9.	Corporation stop fused on 3” HDPE water main.
	
Fused on HDPE 3” x 1” corporation stop.	Water meter setting pits with meter, PRV, and backflow preventor being setup prior to installation.
	
Meter pits and service lines for mobile homes C-8 & C-9.	Meter pits backfilled at Mobile Homes C-10 and C-11.

Comments	
22 of 69 meters installed 0 connections made	
Site Inspector(s): Steven Van Arnam	**Date: 10/16/2019**

DAILY INSPECTION REPORT

Report No. 019 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/17/2019

NYSDEC Division of Environmental Remediation	**EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202	**NYSDEC Contract No. D011354** NCC Superintendent: Jeff Proulx NYSDEC PM: David Chiusano GES PM: Scott McDonald EA PM: Megan Miller EA Site Inspector: Steve Van Arnam

Site Location: Volney, New York

Weather Conditions

General Description	Clouds, rain	AM	Cloudy, rain	PM
Temperature	46° *f*	AM	47° *f*	PM
Wind Direction	WNW, 15-20 MPH	AM	WNW 15-20 MPH	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA X

Health & Safety Comments

GES Reviewed standard health & safety plan, NCC reviewed excavation for services, HDPE service pipe handling, and meter pit installations. Advanced Tree Service is not on site today. All signed onto the HASP sign in sheet.

Summary of Work Performed	Arrived at site:	7:00 AM	Departed Site:	3:30 PM

GES and Subcontractor NCC on site 7:00 AM. NCC has five workers on site again today, two Foremen, two 'B' Operators, and a Laborer. They are Tanner Sullivan, Tim Zubrzycki, Ken Burns, Jirah Palmer, and Marty Jones. Today in the heavy rain and wind they are continuing installation of water service lines, setting meter pits, and water meters on mobile home row 'C' and along the main access road. Advanced Tree Service is not on site today. NCC crew excavated at Mobile Homes C-5, E-1, and F-1, they installed 3-meter pits, multiple curb stops, 3"x1" saddle corporation stops on 3" ø HDPE mainlines, as well as 1" HDPE service lines. The risers under the Mobile Homes are being installed in a plastic pail and will have 1" ball valve shut offs installed with insulation. They are leaving curb stops in the "OFF" position until they begin final connections. Rain continued all day, heavy at times. They completed work on Mobile Homes at 3:10 PM and ended service work for the day to secure equipment and materials, before leaving for the day at 3:30 PM.
Held Progress Meeting No. 3 on site today @ 10:00 AM. Met with Don Ryan, Town of Volney, to review the water connections at each mobile home, Don does not need to witness connections or inspect them because they are being performed by a Contractor and inspection is being provided.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not lined or tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Chad Hill	GES	Project Superintendent	9
Tanner Sullivan	North Country Contracting	Foreman	9
Tim Zubrzycki	NCC	Foreman / Technician	9
Ken Burns	NCC	Laborer	9
Jirah Palmer	NCC	B Operator	9
Marty Jones	NCC	B Operator	9
Jeff Proulx	NCC	Project Manager	

Equipment Description	Contractor/Vendor	Quantity	Total Hours Used
Caterpillar 420it rubber tire backhoe	North Country Contracting	1	6
Caterpillar 416it rubber tire backhoe	"	1	0
HDPE pipe electro fusion machine	"	1	2
7000 Kw generator	"	1	2
Caterpillar 304E Track Hoe	"	2	9
Caterpillar 308 Track Hoe	"	1	9
Plate compactor	"	1	2
Cat 289C Skid Steer Loader	"	1	6
Hitachi EDX120 Track hoe	"	1	0
Bucket truck	Advance Tree Service	2	0
Skid Steer	"	1	0
Tree Chipper	"	1	0
Stump Grinder	"	1	0

Material Description	Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
1" ø HDPE pipe	X					
1" ø Couplings	X					
Insulation	X					
Item 4 bedding material	X					
Tracer wire	X					
Meter Pits	X					
1" curb stops	X					
Meter pit horn assembly w/ PRV	X					

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

Project Schedule Comments

Issues Pending

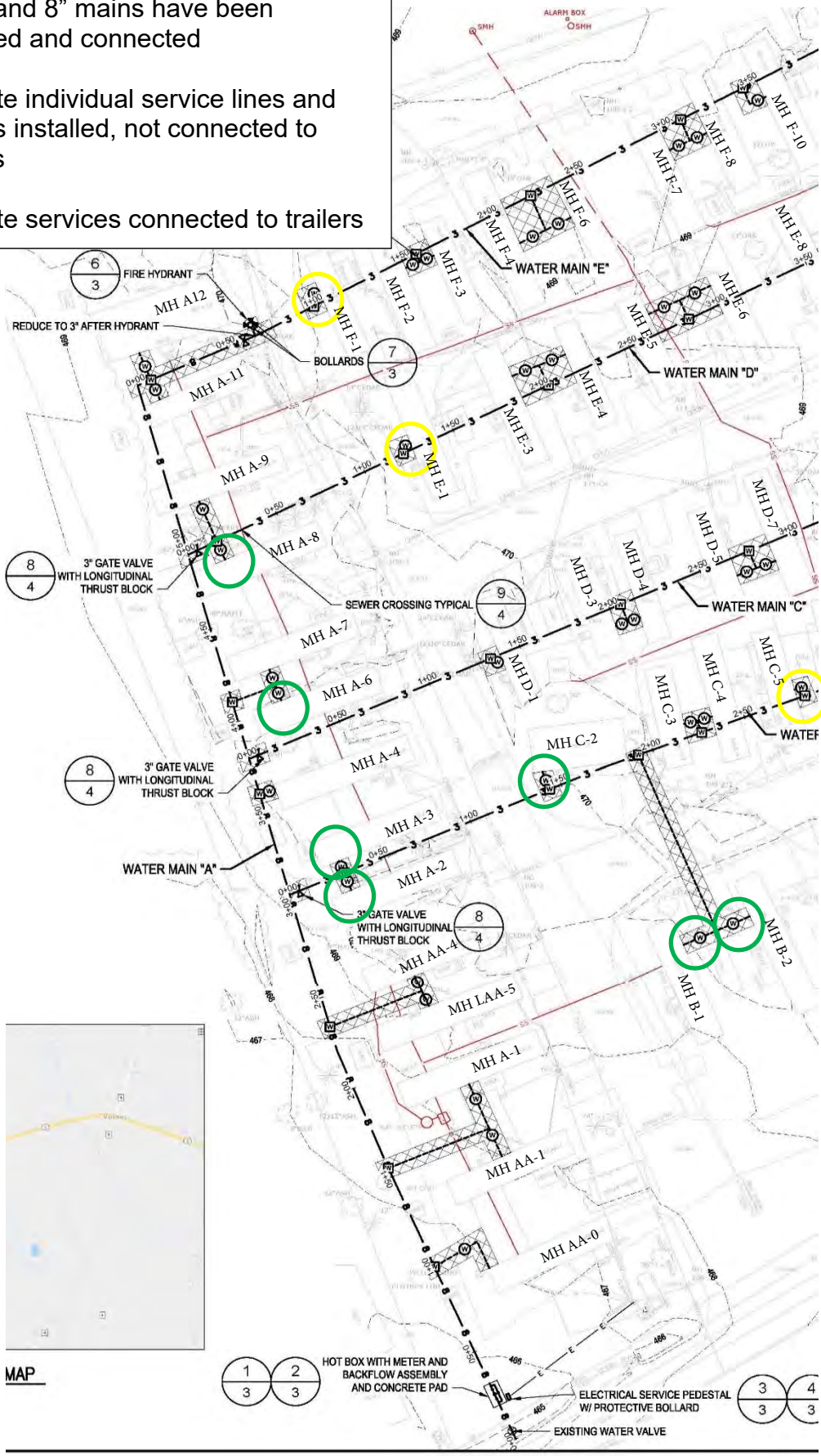
Interaction with Public, Property Owners, Media, etc.

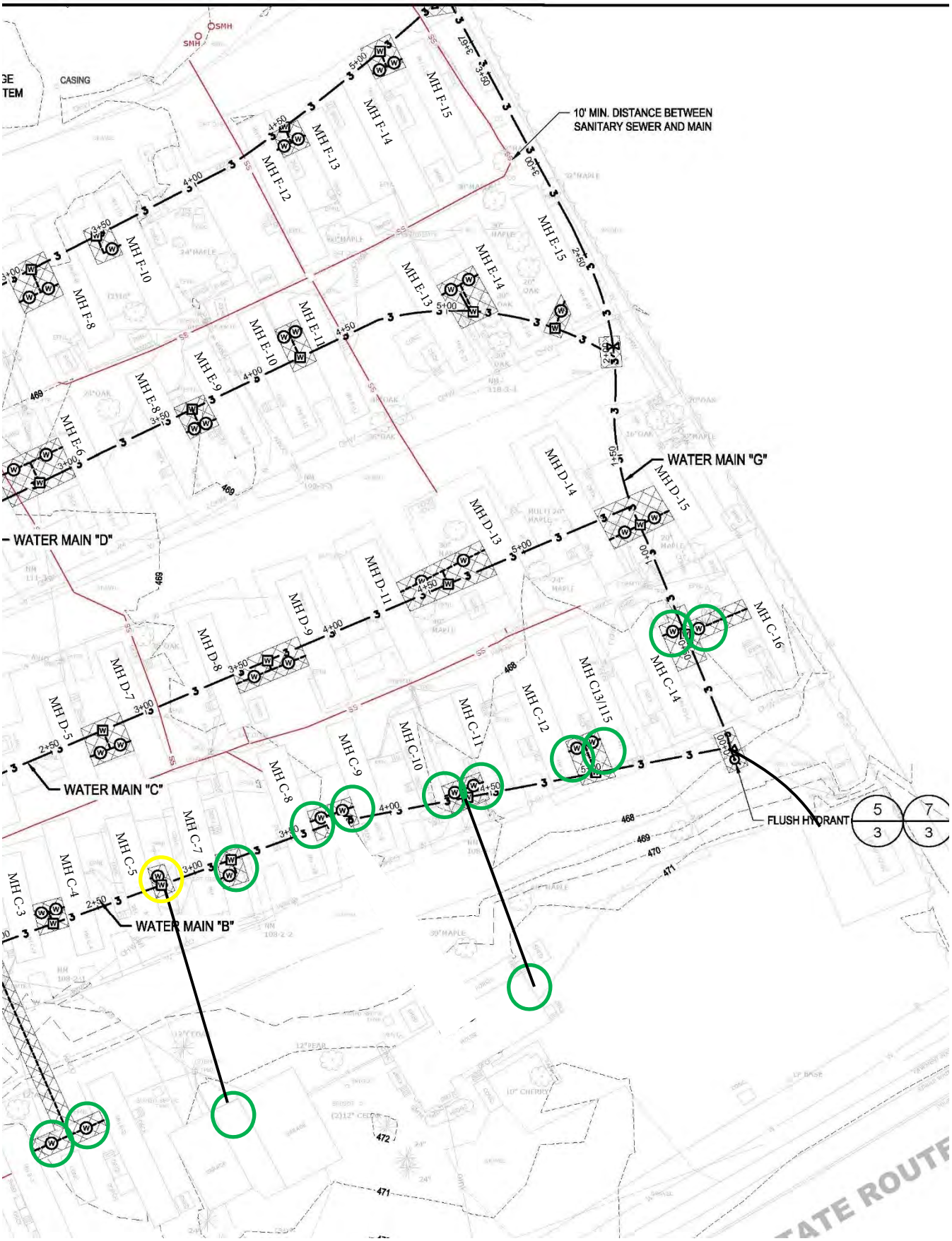
Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

All 3" and 8" mains have been installed and connected

Indicate individual service lines and meters installed, not connected to trailers

Indicate services connected to trailers




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
MH F-8
MH F-10
MH F-12
MH F-13
MH F-14
MH F-15
MH E-6
MH E-8
MH E-9
MH E-10
MH E-11
MH E-13
MH E-14
MH E-15
MH D-5
MH D-7
MH D-8
MH D-9
MH D-11
MH D-13
MH D-14
MH D-15
MH C-3
MH C-4
MH C-5
MH C-7
MH C-8
MH C-9
MH C-10
MH C-11
MH C-12
MH C13/115
MH C-14
MH C-16
CASING
SMH



Water service line to Mobile Home C-5, very tight working quarters.



Mini excavator, skid steer, GES provided traffic cones for delineation of construction zone.



Rainy day, NCC utility truck, and mini excavator down for repairs.



Water meter setting pit at Mobile Home C-7.



Base of new Meter Pits, shows inlet/outlet curbstops for service to mobile homes.



Meter pit at Mobile Home F-1.

Comments	
26 of 69 meters installed 0 connections made	
Site Inspector(s): Steven Van Arnam	**Date: 10/17/2019**

Crosby Mobile Home Park
Water Distribution Installation Progress

Total meters: 25 of 69
Total connections: 0 of 70

Unit Number	Meter Installed	Connected
AA-0		
AA-1		
A-1		
LAA-5		
AA-4		
A-2	10/11/2019	
A-3	10/10/2019	
A-4	10/10/2019	
A-6	10/11/2019	
A-7		
A-8	10/10/2019	
A-9		
A-11		
A-12		
B-1	10/14/2019	
B-2	10/14/2019	
Garage W	10/14/2019	
Garage E		
Apartment 1	10/14/2019	
Apartment 2	10/14/2019	
Apartment 3	10/14/2019	
C-2	10/11/2019	
C-3		
C-4		
C-5	10/17/2019	
C-7	10/16/2019	
C-8	10/16/2019	
C-9	10/16/2019	
C-10	10/15/2019	
C-11	10/15/2019	
C-12	10/15/2019	
C-13 / 115	10/15/2019	
C-14	10/15/2019	
C-16	10/15/2019	
Pump House		

Unit Number	Meter Installed	Connected
D-1	10/10/2019	
D-3		
D-4		
D-5		
D-7		
D-8		
D-9		
D-11		
D-13		
D-14		
x `		
E-1	10/17/2019	
E-3		
E-4		
E-5		
E-6		
E-8		
E-9		
E-10		
E-11		
E-13		
E-14		
E-15		
F-1	10/17/2019	
x``		
F-3		
F-4		
F-6		
x```		
F-8		
F-10````		
F-12		
F-13		
F-14		
F-15		

` Surveyed as blank
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``` Surveyed as blank
```` Surveyed as 110

# DAILY INSPECTION REPORT

Report No. 020 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/18/2019

| | | |
|---|---|---|
| NYSDEC<br>Division of<br>Environmental Remediation | **EA Engineering, P.C.**<br>269 W Jefferson St<br>Syracuse, New York 13202 | **NYSDEC Contract No. D011354**<br>NCC Superintendent: Jeff Proulx<br>NYSDEC PM: David Chiusano<br>GES PM: Scott McDonald<br>EA PM: Megan Miller<br>EA Site Inspector: Steve Van Arnam |

**Site Location:** Volney, New York

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Clouds, rain | AM | Cloudy | PM |
| **Temperature** | 43° *f* | AM | 47° *f* | PM |
| **Wind Direction** | W, 5-10 MPH | AM | W 5-10 MPH | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, NCC reviewed excavation for services, HDPE service pipe handling, and meter pit installations. Advanced Tree Service is grinding tree stump today, reviewed PPE. All signed onto the HASP sign in sheet.

| **Summary of Work Performed** | Arrived at site: | 7:00 AM | Departed Site: | 3:30 PM |
|---|---|---|---|---|

GES, Subcontractors NCC, and Advanced Tree Service are on site today. NCC has five workers on site again today, two Foremen, two 'B' Operators, and a Laborer. They are Tanner Sullivan, Tim Zubrzycki, Ken Burns, Jirah Palmer, and Marty Jones. Today they are continuing installation of water service lines, meter setting pits, and water meters to mobile homes on row 'C'. They are doing C-3 and C-4 today. Advanced Tree Service is on site today. NCC crew excavated at Mobile Homes C-3 and C-4, they installed meter pits, multiple curb stops, 3"x1" saddle corporation stops on 3" ø HDPE mainlines, as well as 1" HDPE service pipes to both Units. The risers under the Mobile Homes are being installed in a plastic pail with 1" ball valve shut offs installed with insulation. A second crew is locating utilities at the front of the Mobile Home Park to installed electrical conduit from service power pole to the "hot box". They are excavating with track hoe, install PVC conduit and backfilling as they go. The service crew completed work on Mobile Homes C-3 and C-4 and moved to the existing water treatment building at the far end of row 'B'. They excavated, installed new meter pit, meter, curb stops, and installed 1" HDPE riser into the building with 1" ball valve shutoff installed. They completed this install by 3:00 PM and ended service work for the day to secure equipment and materials for the weekend. All crews left at 3:30 PM.

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 8 |
| Tanner Sullivan | North Country Contracting | Foreman | 8 |
| Tim Zubrzycki | NCC | Foreman / Technician | 8 |
| Ken Burns | NCC | Laborer | 8 |
| Jirah Palmer | NCC | B Operator | 8 |
| Marty Jones | NCC | B Operator | 8 |
| Jeff Harrington | Advanced Tree Service | Owner | 8 |
| Jay Acker | ATS | Laborer | 8 |
| | | | |
| | | | |
| | | | |
| | | | |

| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 6 |
| Caterpillar 416it rubber tire backhoe | " | 1 | 0 |
| HDPE pipe electro fusion machine | " | 1 | 2 |
| 7000 Kw generator | " | 1 | 2 |
| Caterpillar 304E Track Hoe | " | 2 | 9 |
| Caterpillar 308 Track Hoe | " | 2 | 9 |
| Plate compactor | " | 1 | 2 |
| Cat 289C Skid Steer Loader | " | 1 | 6 |
| Hitachi EDX120 Track hoe | " | 1 | 0 |
| Bucket truck | Advance Tree Service | 2 | 8 |
| Skid Steer | " | 1 | 2 |
| Tree Chipper | " | 1 | 2 |
| Stump Grinder | " | 1 | 4 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
|---|---|---|---|---|---|---|
| 1" ø HDPE pipe | X | | | | | |
| 1" ø Couplings | X | | | | | |
| Insulation | X | | | | | |
| Item 4 bedding material | X | | | | | |
| Tracer wire | X | | | | | |
| Meter Pits | X | | | | | |
| 1" curb stops | X | | | | | |
| Meter pit horn assembly w/ PRV | X | | | | | |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

**Visitors to Site**

| Name | Representing | Entered Exclusion/CRZ Zone | |
|---|---|---|---|
| Jeff Proulx | North Country Contracting | **Yes X** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |

**Project Schedule Comments**

**Issues Pending**

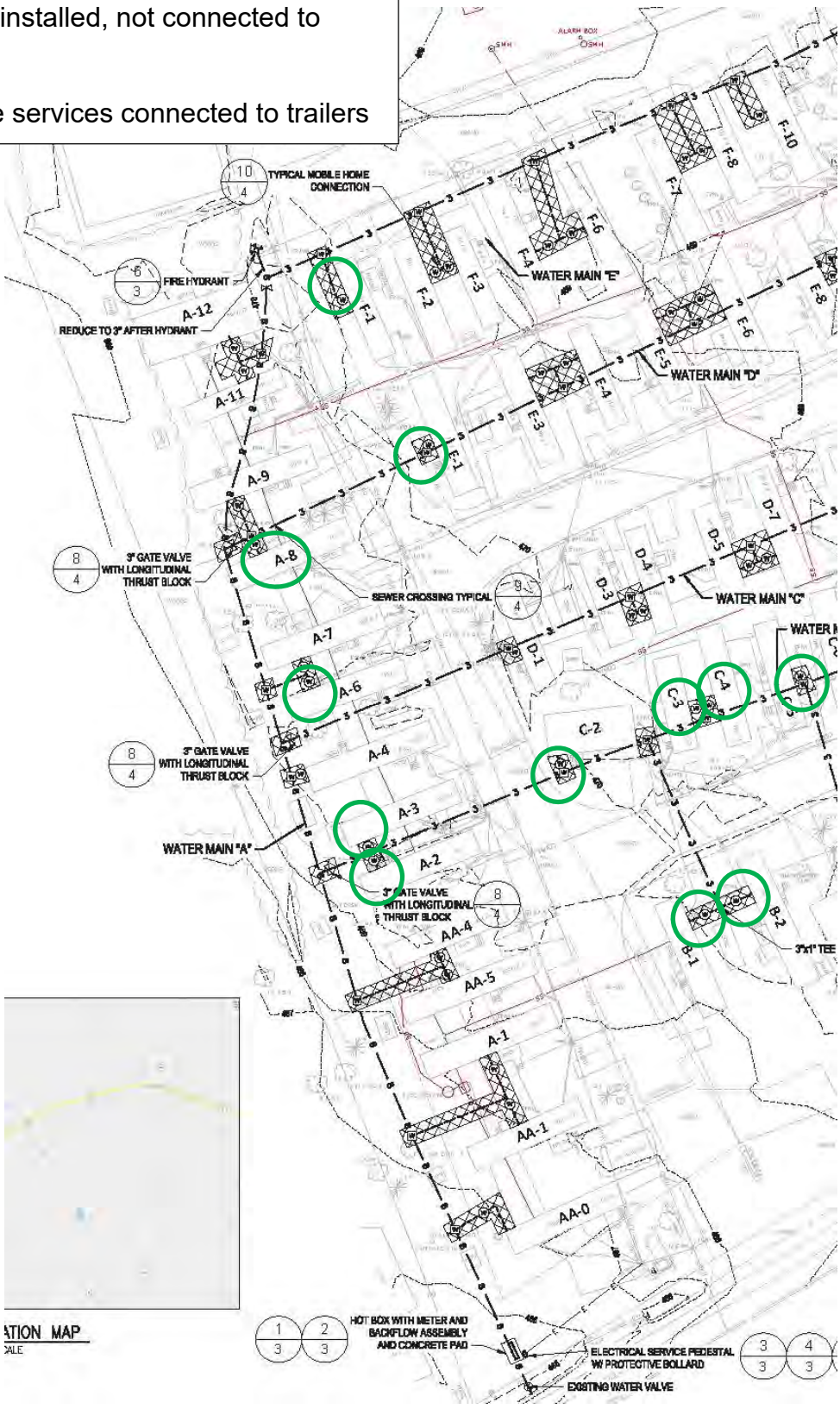
**Interaction with Public, Property Owners, Media, etc.**

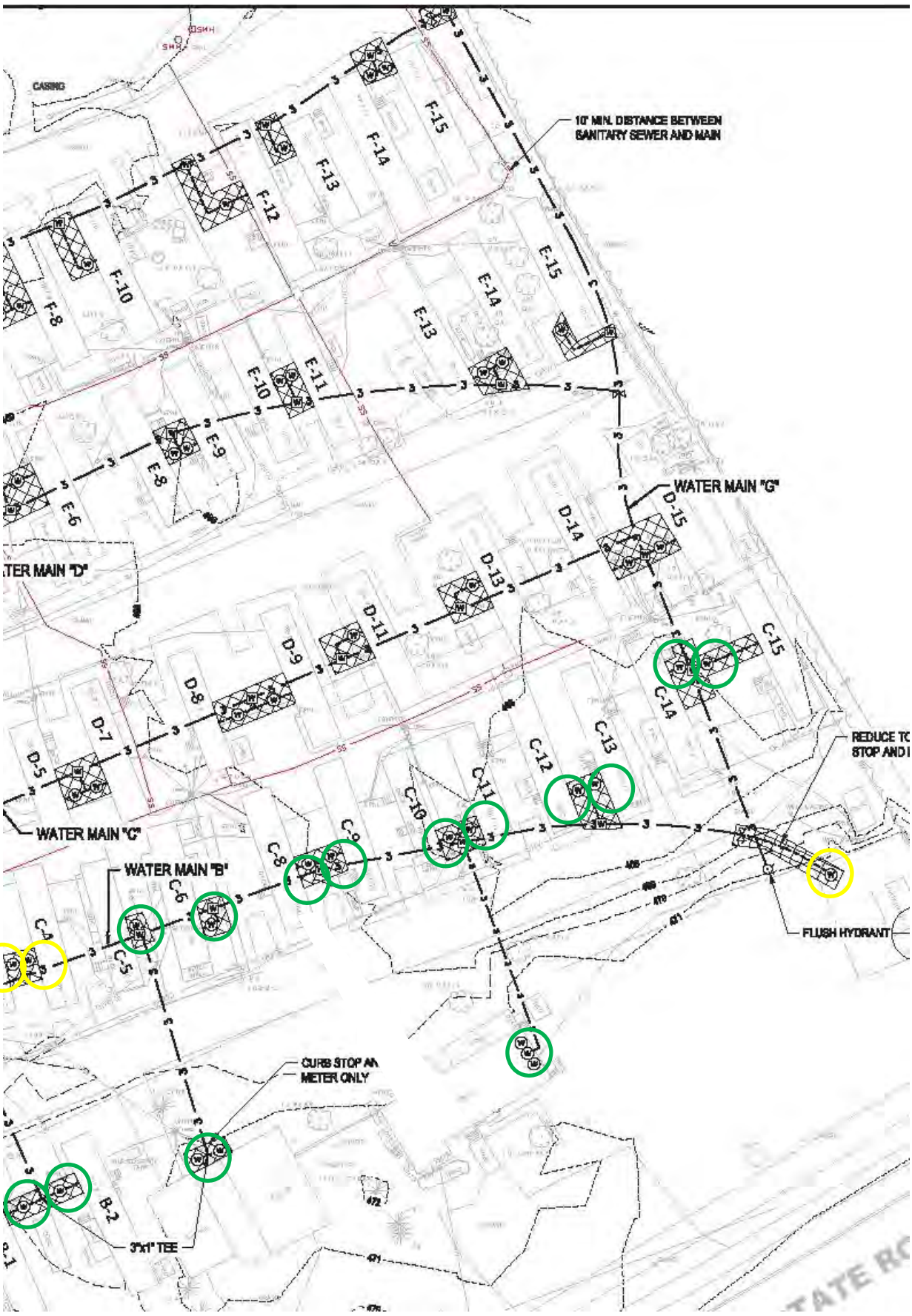
Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

All 3” and 8” mains have been installed and connected

Indicate individual service lines and meters installed, not connected to trailers

Indicate services connected to trailers




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
CURB STOP AN METER ONLY
3"x1" TEE
F-8
F-10
F-12
F-13
F-14
F-15
E-6
E-8
E-9
E-10
E-11
E-13
E-14
E-15
D-5
D-7
D-8
D-9
D-11
D-13
D-14
D-15
C-4
C-5
C-6
C-8
C-9
C-10
C-11
C-12
C-13
C-14
C-15
B-2



Water service line, meter pits, and curb stops to Mobile Home C-3 and C-4.



Mobile Home C-3, location of new water meter pit, adjacent to the existing water line.



Conduit installed to “hot box” location for electrical.



Electrical conduit install for meter assembly “hot box”.



Advanced Tree Service removing tree at meter pit location.



Advanced Tree Service grinding tree stumps.

| **Comments** | |
|---|---|
| 29 of 69 meters installed, installed C-3, C-4, and Existing Water Treatment Bldg. today.<br>0 connections made | |
| **Site Inspector(s):** Steven Van Arnam | **Date: 10/18/2019** |

Crosby Mobile Home Park
Water Distribution Installation Progress

Total meters: 29 of 69
Total connections: 0 of 70

| | Unit Number | Meter Pit Installed | Connected | | Unit Number | Meter Pit Installed | Connected |
|---|---|---|---|---|---|---|---|
| **1** | AA-0 | | | **36** | D-1 | 10/10/2019 | |
| **2** | AA-1 | | | **37** | D-3 | | |
| **3** | A-1 | | | **38** | D-4 | | |
| **4** | LAA-5 | | | **39** | D-5 | | |
| **5** | AA-4 | | | **40** | D-7 | | |
| **6** | A-2` | 10/11/2019 | | **41** | D-8 | | |
| **7** | A-3 | 10/10/2019 | | **42** | D-9 | | |
| **8** | A-4 | 10/10/2019 | | **43** | D-11 | | |
| **9** | A-6 | 10/11/2019 | | **44** | D-13 | | |
| **10** | A-7 | | | **45** | D-14 | | |
| **11** | A-8 | 10/10/2019 | | **46** | D-15` | | |
| **12** | A-9 | | | **47** | E-1 | 10/17/2019 | |
| **13** | A-11 | | | **48** | E-3 | | |
| **14** | A-12 | | | **49** | E-4 | | |
| **15** | B-1 | 10/14/2019 | | **50** | E-5 | | |
| **16** | B-2 | 10/14/2019 | | **51** | E-6 | | |
| **17** | Garage W | 10/14/2019 | | **52** | E-8 | | |
| **18** | Garage E | 10/14/2019 | | **53** | E-9 | | |
| **19** | Apartment 1 | 10/14/2019 | | **54** | E-10 | | |
| **20** | Apartment 2 | 10/14/2019 | | **55** | E-11 | | |
| **21** | Apartment 3 | 10/14/2019 | | **56** | E-13 | | |
| **22** | C-2 | 10/11/2019 | | **57** | E-14 | | |
| **23** | C-3 | 10/18/2019 | | **58** | E-15 | | |
| **24** | C-4 | 10/18/2019 | | **59** | F-1 | 10/17/2019 | |
| **25** | C-5 | 10/17/2019 | | **60** | F-2` | | |
| **26** | C-7 | 10/16/2019 | | **61** | F-3 | | |
| **27** | C-8 | 10/16/2019 | | **62** | F-4 | | |
| **28** | C-9 | 10/16/2019 | | **63** | F-6 | | |
| **29** | C-10 | 10/15/2019 | | **64** | F-7` | | |
| **30** | C-11 | 10/15/2019 | | **65** | F-8 | | |
| **31** | C-12 | 10/15/2019 | | **66** | F-10`` | | |
| **32** | C-13 / 115 | 10/15/2019 | | **67** | F-12 | | |
| **33** | C-14 | 10/15/2019 | | **68** | F-13 | | |
| **34** | C-16 | 10/15/2019 | | **69** | F-14 | | |
| **35** | Water Plant Bldg | 10/18/2019 | | **70** | F-15 | | |

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# DAILY INSPECTION REPORT

Report No. 021 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/21/2019

| | | |
|---|---|---|
| NYSDEC<br>Division of<br>Environmental Remediation | **EA Engineering, P.C.**<br>269 W Jefferson St<br>Syracuse, New York 13202 | **NYSDEC Contract No. D011354**<br>NCC Superintendent: Jeff Proulx<br>NYSDEC PM: David Chiusano<br>GES PM: Scott McDonald<br>EA PM: Megan Miller<br>EA Site Inspector: Steve Van Arnam |

**Site Location:** Volney, New York

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Fog | AM | Sun & clouds | PM |
| **Temperature** | 46° *f* | AM | 58° *f* | PM |
| **Wind Direction** | Calm | AM | West, < 5 MPH | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, NCC reviewed excavation for services, HDPE service pipe handling, and meter pit installations. Advanced Tree Service is grinding tree stumps and cleanup today, reviewed PPE. All signed onto the HASP sign in sheet.

| **Summary of Work Performed** | Arrived at site: | 7:00 AM | Departed Site: | 5:30 PM |
|---|---|---|---|---|

GES and subcontractor NCC, are on site today. NCC has eight workers on site today, three Foremen, three 'B' Operators, and two Laborers. They are Tanner Sullivan, Tim Zubrzycki, Todd Sullivan, Ken Burns, Cody Zubrzycki, Jirah Palmer, Tony Zubrzycki, and Marty Jones. Today they are continuing installation of water service lines, meter setting pits, and water meters to mobile homes on rows 'A' and 'D'. Advanced Tree Service is not on site today due to the illness of one of the crew. NCC has two crews excavating today, one crew on Mobile Home Park row 'A', starting at AA-0, and another crew on Row 'D' starting at Mobile Homes D-5 and D-7, they installed meter pits, multiple curb stops, 3"x1" saddle corporation stops on 3" ø HDPE mainlines, as well as 1" HDPE service pipes to all Units. GES Representative Chad Hill is notifying residents in advanced. Today they continue to install under the Mobile Homes, in a plastic pail with 1" ball valve shut offs and pipe insulation. In the morning an operator with skid steer moved spoils left from the services installed last week before assisting with backfill and cleanup behind the pipe crews. Sub-Contractor Kohrs Electrical is on site working on installation of electrical from service power pole to the "hot box". National Grid was on site first thing to isolate power meter on the pole which is not needed. The Park 'house' power comes from a meter at the rear of the park. NCC completed installs at MH AA-0, MH AA-1, MH AA-3, MH D-5, MH D-7, MH D-8, and MH D-9 today. NCC pipe crews ended service installs by 5:00 PM and secure equipment and materials for the night. All crews were off site by 5:30 PM.

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 10 |
| Tanner Sullivan | North Country Contracting | Foreman | 10 |
| Tim Zubrzycki | NCC | Foreman / Technician | 10 |
| Ken Burns | NCC | Laborer | 10 |
| Jirah Palmer | NCC | B Operator | 10 |
| Marty Jones | NCC | B Operator | 10 |
| Tony Zubrzycki | NCC | B Operator | 10 |
| Cody Zubrzycki | NCC | Laborer | 10 |
| Todd Sullivan | NCC | Foreman | 10 |
| | | | |
| | | | |
| | | | |

| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 9 |
| Caterpillar 416it rubber tire backhoe | " | 1 | 6 |
| HDPE pipe electro fusion machine | " | 1 | 4 |
| 7000 Kw generator | " | 1 | 4 |
| Caterpillar 304E Track Hoe | " | 2 | 9 |
| Caterpillar 308 Track Hoe | " | 2 | 9 |
| Plate compactor | " | 1 | 4 |
| Cat 289C Skid Steer Loader | " | 1 | 8 |
| Hitachi EDX120 Track hoe | " | 1 | 0 |
| Bucket truck | Advance Tree Service | 2 | 0 |
| Skid Steer | " | 1 | 0 |
| Tree Chipper | " | 1 | 0 |
| Stump Grinder | " | 1 | 0 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
|---|---|---|---|---|---|---|
| 1" ø HDPE pipe | X | | | | | |
| 1" ø Couplings | X | | | | | |
| Insulation | X | | | | | |
| Item 4 bedding material | X | | | | | |
| Tracer wire | X | | | | | |
| Meter Pits | X | | | | | |
| 1" curb stops | X | | | | | |
| Meter assembly w/ PRV & Meter | X | | | | | |
| Curb box risers and box w/ covers | X | | | | | |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

**Visitors to Site**

| Name | Representing | Entered Exclusion/CRZ Zone | |
|---|---|---|---|
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |

**Project Schedule Comments**

**Issues Pending**

**Interaction with Public, Property Owners, Media, etc.**

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

All 3” and 8” mains have been installed and connected



Indicate individual service lines and meters installed, not connected to trailers

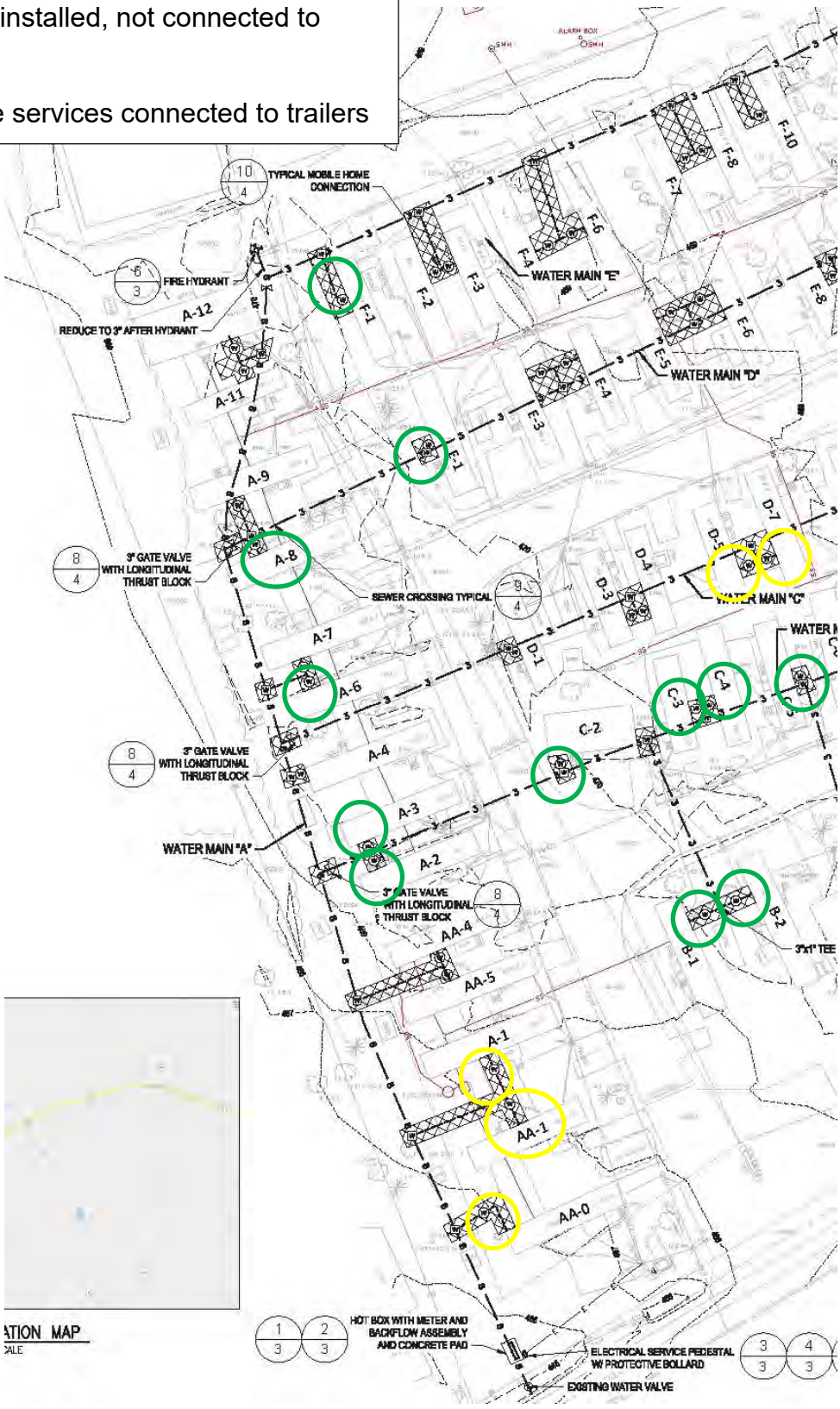


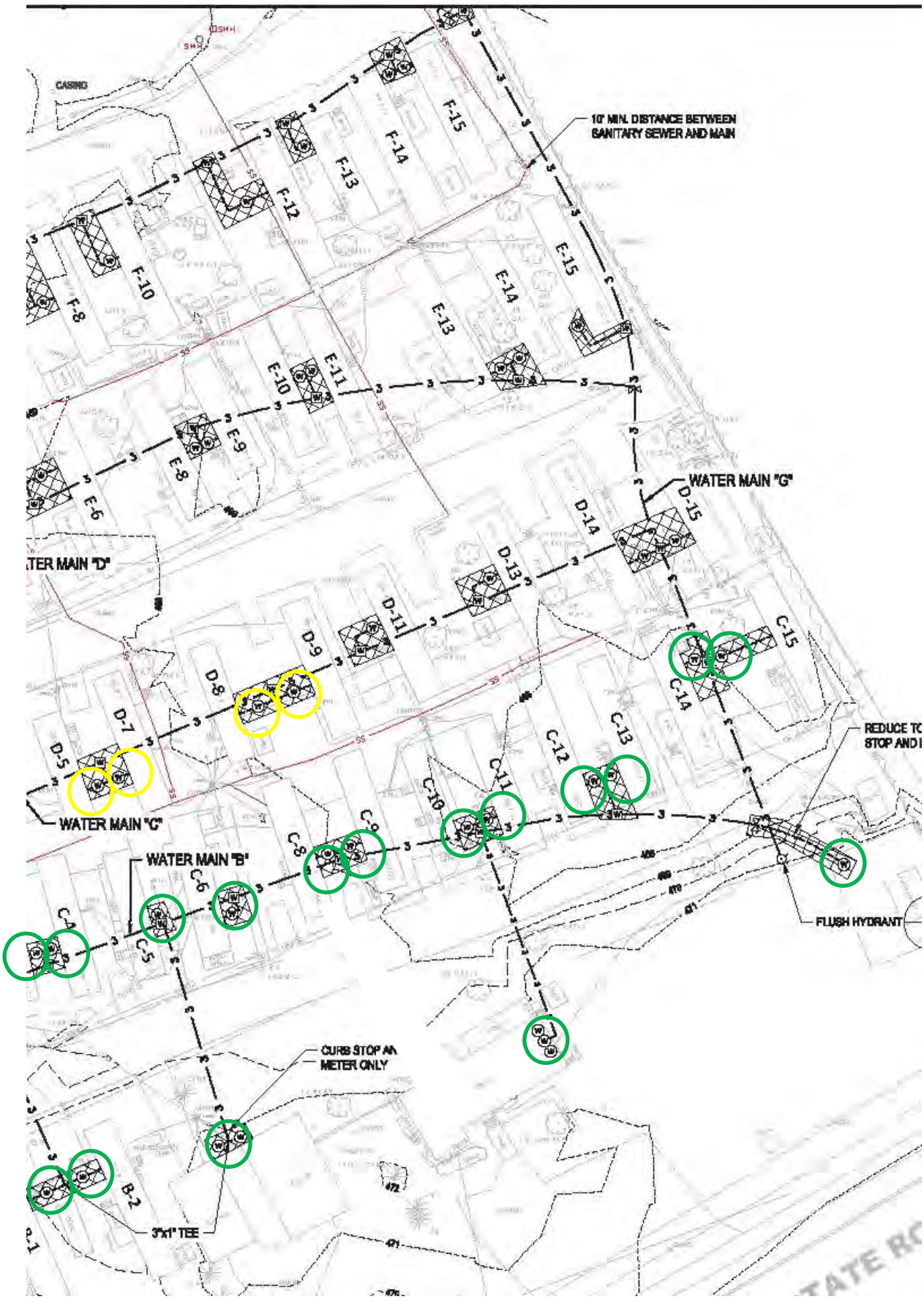
Indicate services connected to trailers

All 3” and 8” mains have been installed and connected

Indicate individual service lines and meters installed, not connected to trailers

Indicate services connected to trailers




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
CURB STOP AN METER ONLY
3"x1" TEE
F-8
F-10
F-12
F-13
F-14
F-15
E-6
E-8
E-9
E-10
E-11
E-13
E-14
E-15
D-5
D-7
D-8
D-9
D-11
D-13
D-14
D-15
C-4
C-5
C-6
C-8
C-9
C-10
C-11
C-12
C-13
C-14
C-15
B-2

| | |
|---|---|
|  |  |
| Water service line to meter pits, encountered abandoned utilities near Mobile Home AA-0. | Water line in trench with tracer wire. |
|  |  |
| Pail beneath mobile home, 1" HDPE extends into pail w/ 1" ball valve & insulation installed eventually. | Electrical panel with conduit and feeder to "hot box" structure. |
|  |  |
| Meter pits at Mobile Homes AA-1 and AA-3. | Meter pits at Mobile Homes D-8 and D-9. |

| **Comments** | |
|---|---|
| 35 of 69 meter pits/services installed- today they installed AA-0, AA-1, AA-3, D-5, D-7, D-8, and D-9 for a total of seven today.<br><br>0 connections made to municipal water supply today. | |
| **Site Inspector(s):** Steven Van Arnam | **Date: 10/21/2019** |

Crosby Mobile Home Park
Water Distribution Installation Progress

Total meters: 36 of 69
Total connections: 0 of 70

| | Unit Number | Meter Pit Installed | Connected | | Unit Number | Meter Pit Installed | Connected |
|---|---|---|---|---|---|---|---|
| **1** | AA-0 | 10/21/2019 | | **36** | D-1 | 10/10/2019 | |
| **2** | AA-1 | 10/21/2019 | | **37** | D-3 | | |
| **3** | A-1 | 10/21/2019 | | **38** | D-4 | | |
| **4** | LAA-5 | | | **39** | D-5 | 10/21/2019 | |
| **5** | AA-4 | | | **40** | D-7 | 10/21/2019 | |
| **6** | A-2` | 10/11/2019 | | **41** | D-8 | 10/21/2019 | |
| **7** | A-3 | 10/10/2019 | | **42** | D-9 | 10/21/2019 | |
| **8** | A-4 | 10/10/2019 | | **43** | D-11 | | |
| **9** | A-6 | 10/11/2019 | | **44** | D-13 | | |
| **10** | A-7 | | | **45** | D-14 | | |
| **11** | A-8 | 10/10/2019 | | **46** | D-15` | | |
| **12** | A-9 | | | **47** | E-1 | 10/17/2019 | |
| **13** | A-11 | | | **48** | E-3 | | |
| **14** | A-12 | | | **49** | E-4 | | |
| **15** | B-1 | 10/14/2019 | | **50** | E-5 | | |
| **16** | B-2 | 10/14/2019 | | **51** | E-6 | | |
| **17** | Garage W | 10/14/2019 | | **52** | E-8 | | |
| **18** | Garage E | 10/14/2019 | | **53** | E-9 | | |
| **19** | Apartment 1 | 10/14/2019 | | **54** | E-10 | | |
| **20** | Apartment 2 | 10/14/2019 | | **55** | E-11 | | |
| **21** | Apartment 3 | 10/14/2019 | | **56** | E-13 | | |
| **22** | C-2 | 10/11/2019 | | **57** | E-14 | | |
| **23** | C-3 | 10/18/2019 | | **58** | E-15 | | |
| **24** | C-4 | 10/18/2019 | | **59** | F-1 | 10/17/2019 | |
| **25** | C-5 | 10/17/2019 | | **60** | F-2` | | |
| **26** | C-7 | 10/16/2019 | | **61** | F-3 | | |
| **27** | C-8 | 10/16/2019 | | **62** | F-4 | | |
| **28** | C-9 | 10/16/2019 | | **63** | F-6 | | |
| **29** | C-10 | 10/15/2019 | | **64** | F-7` | | |
| **30** | C-11 | 10/15/2019 | | **65** | F-8 | | |
| **31** | C-12 | 10/15/2019 | | **66** | F-10`` | | |
| **32** | C-13 / 115 | 10/15/2019 | | **67** | F-12 | | |
| **33** | C-14 | 10/15/2019 | | **68** | F-13 | | |
| **34** | C-16 | 10/15/2019 | | **69** | F-14 | | |
| **35** | Water Plant Bldg | 10/18/2019 | | **70** | F-15 | | |

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# DAILY INSPECTION REPORT



Report No. 022 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/22/2019

| | | |
|---|---|---|
| NYSDEC Division of Environmental Remediation | **EA Engineering, P.C.**<br>269 W Jefferson St<br>Syracuse, New York 13202 | **NYSDEC Contract No. D011354**<br>NCC Superintendent: Jeff Proulx<br>NYSDEC PM: David Chiusano<br>GES PM: Scott McDonald<br>EA PM: Megan Miller<br>EA Site Inspector: Steve Van Arnam |

**Site Location:** Volney, New York

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Cloudy, breezy | AM | Clouds & rain | PM |
| **Temperature** | 57° *f* | AM | 56° *f* | PM |
| **Wind Direction** | SW, 5-10 MPH | AM | SW, 10 MPH | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, NCC reviewed excavation for services, HDPE service pipe handling, and meter pit installations. Advanced Tree Service is tree cutting by A-12 and cleanup today, reviewed PPE. All signed onto the HASP sign in sheet.

| **Summary of Work Performed** | Arrived at site: | 7:00 AM | Departed Site: | 4:30 PM |
|---|---|---|---|---|

GES, subcontractors NCC, and Advanced Tree Service are on site today. NCC has eight workers on site today, three Foremen, three 'B' Operators, and two Laborers. They are Tanner Sullivan, Tim Zubrzycki, Todd Sullivan, Ken Burns, Cody Zubrzycki, Jirah Palmer, Tony Zubrzycki, Marty Jones, and Terry Souva for 5 hours to install meters in the three unit apartment house. Advance Tree Service has two workers, cutter in bucket truck and ground worker. Today NCC continued installation of water service lines, meter setting pits, and water meters to mobile homes on rows 'A' and 'D'. They have two crews excavating today, one crew on Mobile Home Park Row 'A', starting at AA-5 and AA-4, and another crew on Row 'D' starting at Mobile Homes D-11 and D-13, they installed meter pits, multiple curb stops, 3"x1" and 8"x1" saddle corporation stops on 3" & 8" ø HDPE mainlines, as well as 1" HDPE service pipes to all Units. GES Representative Chad Hill is notifying residents in advance. Advanced Tree Service began cutting last tree by A-12 today, gusty winds caused them to stop work around 2:00 PM. NCC continued to install services up under the Mobile Homes, in a plastic pail with 1" ball valve shut offs and pipe insulation. NCC completed installs at MH AA-5, MH AA-4, MH A-6, MH A-7, MH D-11, MH D-13, MH D-14 and MH D-15 today. The pipe crews ended service installs by 4:00 PM and secure equipment and materials for the night. All crews were off site by 4:30 PM.

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 10 |
| Tanner Sullivan | North Country Contracting | Foreman | 10 |
| Tim Zubrzycki | NCC | Foreman / Technician | 10 |
| Ken Burns | NCC | Laborer | 10 |
| Jirah Palmer | NCC | B Operator | 10 |
| Marty Jones | NCC | B Operator | 10 |
| Tony Zubrzycki | NCC | B Operator | 10 |
| Cody Zubrzycki | NCC | Laborer | 10 |
| Todd Sullivan | NCC | Foreman | 10 |
| Jeff Harrington | Advanced Tree Service | Owner / Operator | 6.5 |
| Jay Acker | ATS | Laborer | 6.5 |
| Terry Souva | NCC | Technician | 5 |

| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 9 |
| Caterpillar 416it rubber tire backhoe | " | 1 | 6 |
| HDPE pipe electro fusion machine | " | 1 | 4 |
| 7000 Kw generator | " | 1 | 4 |
| Caterpillar 304E Track Hoe | " | 2 | 9 |
| Caterpillar 308 Track Hoe | " | 2 | 9 |
| Plate compactor | " | 1 | 4 |
| Cat 289C Skid Steer Loader | " | 1 | 8 |
| Hitachi EDX120 Track hoe | " | 1 | 0 |
| Bucket truck | Advance Tree Service | 2 | 5 |
| Skid Steer | " | 1 | 1 |
| Tree Chipper | " | 1 | 4 |
| Stump Grinder | " | 1 | 0 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
|---|---|---|---|---|---|---|
| 1" ø HDPE pipe | X | | | | | |
| 1" ø Couplings | X | | | | | |
| Insulation | X | | | | | |
| Item 4 bedding material | X | | | | | |
| Tracer wire | X | | | | | |
| Meter Pits | X | | | | | |
| 1" curb stops | X | | | | | |
| Meter assembly w/ PRV & Meter | X | | | | | |
| Curb box risers and box w/ covers | X | | | | | |
| 3"x1" & 8"x1" HDPE pipe saddles | X | | | | | |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

**Visitors to Site**

| Name | Representing | Entered Exclusion/CRZ Zone | |
|---|---|---|---|
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |

**Project Schedule Comments**

**Issues Pending**

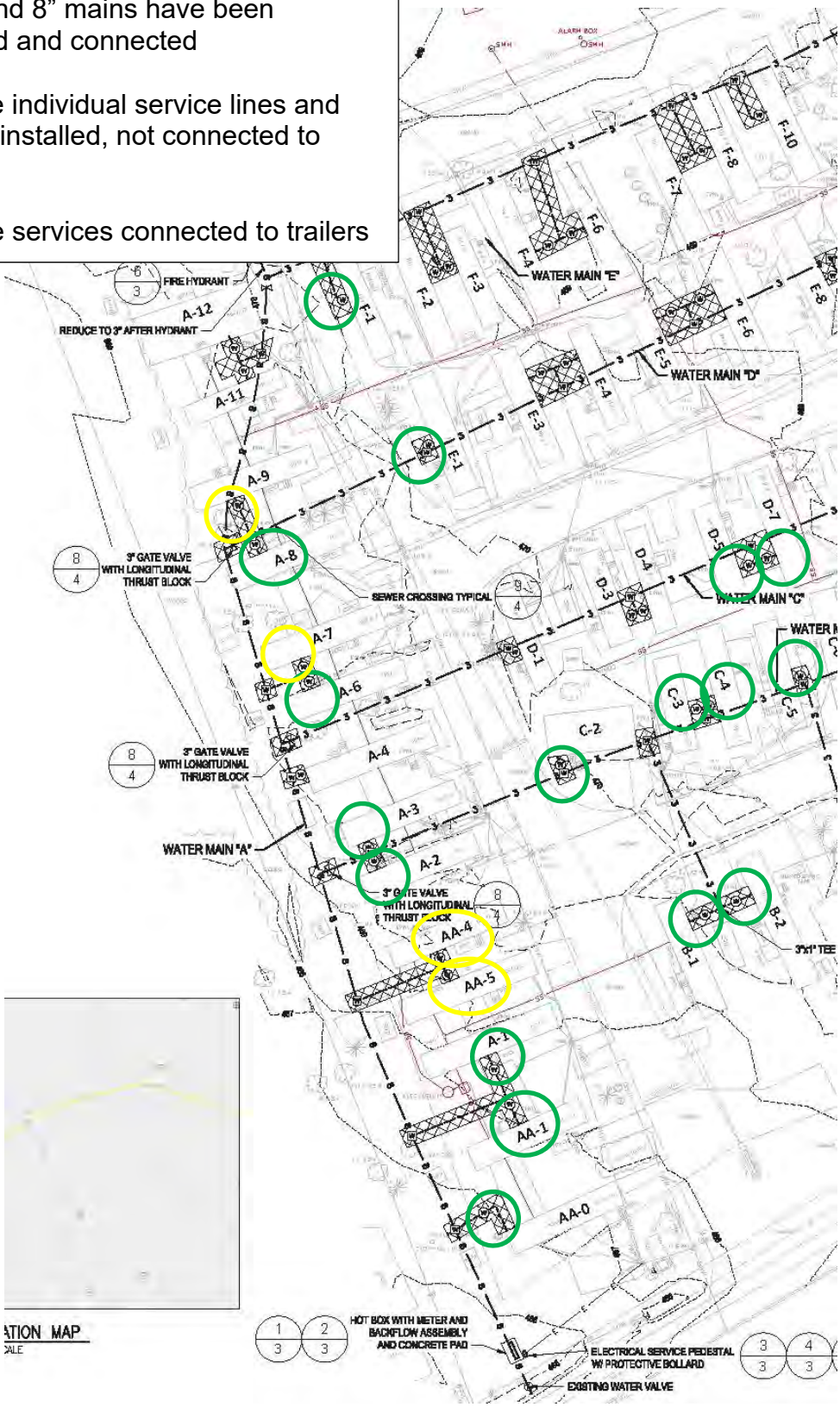
**Interaction with Public, Property Owners, Media, etc.**

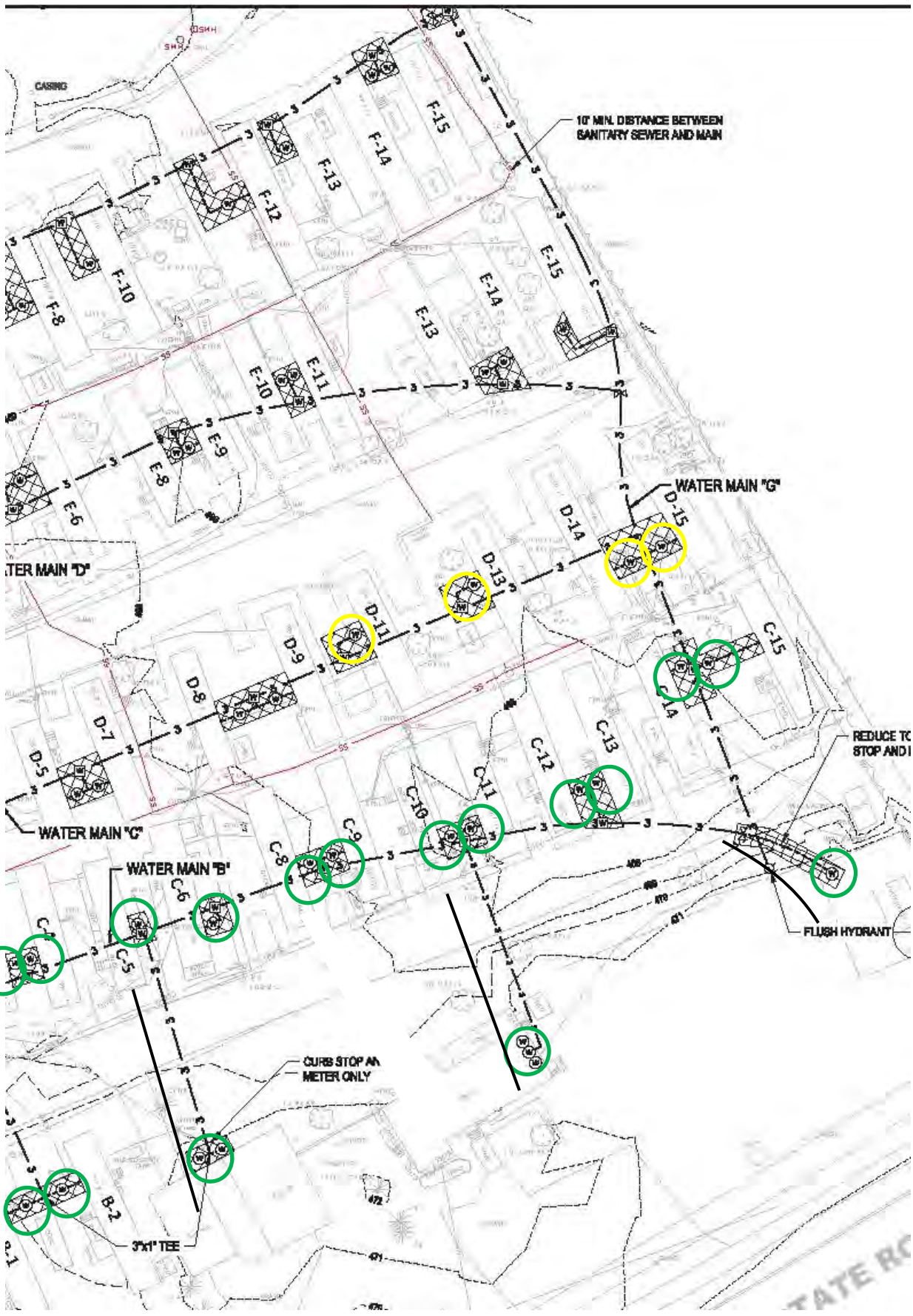
Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

All 3" and 8" mains have been installed and connected

Indicate individual service lines and meters installed, not connected to trailers

Indicate services connected to trailers




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
CURB STOP AN METER ONLY
3"x1" TEE
F-15
F-14
F-13
F-12
F-10
F-8
E-15
E-14
E-13
E-11
E-10
E-9
E-8
E-6
D-15
D-14
D-13
D-11
D-9
D-8
D-7
D-5
C-15
C-13
C-12
C-11
C-10
C-9
C-8
C-6
C-5
B-2



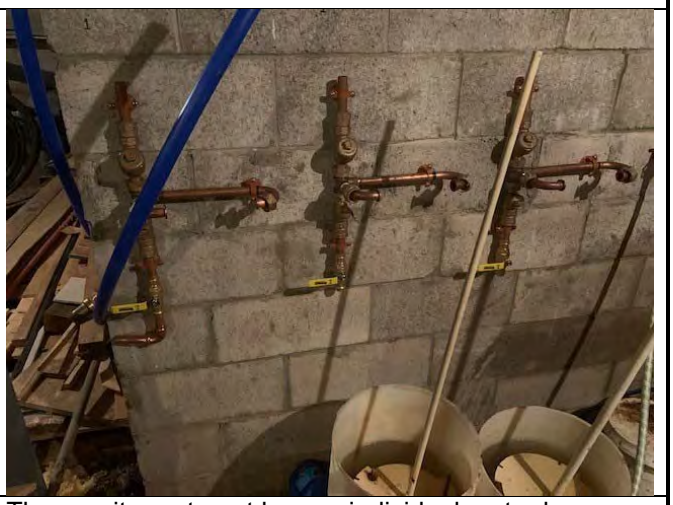
Water service line under Mobile Home with shut-off.



Service in pail beneath mobile home.



Meter pits, 1" HDPE service pipe, and curb stops w/ curb stop rod and box with covers.



Three unit apartment house, individual meter horns surface mounted inside basement.



1" saddle and HDPE to meter pits.



Excavating at Mobile Homes D-14 and D-15.

| **Comments** | |
|---|---|
| 43 of 69 meter pits/services installed- today they installed AA-5, AA-4, A-6, A-7, D-11, D-13, D-14, and D-15 for a total of eight today.<br><br>0 connections made to municipal water supply today. | |
| **Site Inspector(s):** Steven Van Arnam | **Date: 10/22/2019** |

Crosby Mobile Home Park
Water Distribution Installation Progress

Total meters: 43 of 69
Total connections: 0 of 70

| | Unit Number | Meter Pit Installed | Connected | | Unit Number | Meter Pit Installed | Connected |
|---|---|---|---|---|---|---|---|
| **1** | AA-0 | 10/21/2019 | | **36** | D-1 | 10/10/2019 | |
| **2** | AA-1 | 10/21/2019 | | **37** | D-3 | | |
| **3** | A-1 | 10/21/2019 | | **38** | D-4 | | |
| **4** | LAA-5 | 10/22/2019 | | **39** | D-5 | 10/21/2019 | |
| **5** | AA-4 | 10/22/2019 | | **40** | D-7 | 10/21/2019 | |
| **6** | A-2` | 10/11/2019 | | **41** | D-8 | 10/21/2019 | |
| **7** | A-3 | 10/10/2019 | | **42** | D-9 | 10/21/2019 | |
| **8** | A-4 | 10/10/2019 | | **43** | D-11 | 10/22/2019 | |
| **9** | A-6 | 10/11/2019 | | **44** | D-13 | 10/22/2019 | |
| **10** | A-7 | 10/22/2019 | | **45** | D-14 | 10/22/2019 | |
| **11** | A-8 | 10/10/2019 | | **46** | D-15` | 10/22/2019 | |
| **12** | A-9 | 10/22/2019 | | **47** | E-1 | 10/17/2019 | |
| **13** | A-11 | | | **48** | E-3 | | |
| **14** | A-12 | | | **49** | E-4 | | |
| **15** | B-1 | 10/14/2019 | | **50** | E-5 | | |
| **16** | B-2 | 10/14/2019 | | **51** | E-6 | | |
| **17** | Garage W | 10/14/2019 | | **52** | E-8 | | |
| **18** | Garage E | | | **53** | E-9 | | |
| **19** | Apartment 1 | 10/14/2019 | | **54** | E-10 | | |
| **20** | Apartment 2 | 10/14/2019 | | **55** | E-11 | | |
| **21** | Apartment 3 | 10/14/2019 | | **56** | E-13 | | |
| **22** | C-2 | 10/11/2019 | | **57** | E-14 | | |
| **23** | C-3 | 10/18/2019 | | **58** | E-15 | | |
| **24** | C-4 | 10/18/2019 | | **59** | F-1 | 10/17/2019 | |
| **25** | C-5 | 10/17/2019 | | **60** | F-2` | | |
| **26** | C-7 | 10/16/2019 | | **61** | F-3 | | |
| **27** | C-8 | 10/16/2019 | | **62** | F-4 | | |
| **28** | C-9 | 10/16/2019 | | **63** | F-6 | | |
| **29** | C-10 | 10/15/2019 | | **64** | F-7` | | |
| **30** | C-11 | 10/15/2019 | | **65** | F-8 | | |
| **31** | C-12 | 10/15/2019 | | **66** | F-10`` | | |
| **32** | C-13 / 115 | 10/15/2019 | | **67** | F-12 | | |
| **33** | C-14 | 10/15/2019 | | **68** | F-13 | | |
| **34** | C-16 | 10/15/2019 | | **69** | F-14 | | |
| **35** | Water Plant Bldg | 10/18/2019 | | **70** | F-15 | | |

` Surveyed as blank

`` Surveyed as 110

# DAILY INSPECTION REPORT

Report No. 023 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/23/2019

| | | |
|---|---|---|
| NYSDEC<br>Division of<br>Environmental Remediation | **EA Engineering, P.C.**<br>269 W Jefferson St<br>Syracuse, New York 13202 | **NYSDEC Contract No. D011354**<br>NCC Superintendent: Jeff Proulx<br>NYSDEC PM: David Chiusano<br>GES PM: Scott McDonald<br>EA PM: Megan Miller<br>EA Site Inspector: Lindsay Mairs |

**Site Location:** Volney, New York

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Sunny | AM | Clouds & light rain | PM |
| **Temperature** | 52° *f* | AM | 58° *f* | PM |
| **Wind Direction** | S, 3 MPH | AM | SW, 8 MPH | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, NCC reviewed excavation for services, HDPE service pipe handling, and meter pit installations. Advanced Tree Service arrived on site around 8am and reviewed PPE. All signed onto the HASP sign in sheet.

| **Summary of Work Performed** | Arrived at site: | 7:10 AM | Departed Site: | 5:30 PM |
|---|---|---|---|---|

GES, subcontractors NCC, and Advanced Tree Service are on site today. NCC has nine workers on site today, three Foremen, three 'B' Operators, two Laborers, and one for meter installation. They are Tanner Sullivan, Tim Zubrzycki, Todd Sullivan, Ken Burns, Cody Zubrzycki, Jirah Palmer, Tony Zubrzycki, Marty Jones, and Terry Souva. Advance Tree Service has two workers, cutter in bucket truck and ground worker, they continued work on the tree that adjacent to A-12. Today NCC continued installation of water service lines, meter setting pits, and water meters to mobile homes on rows 'C', 'D', 'E', and 'F'. They have two crews excavating today, both crews started on Mobile Home Park Row 'D', starting at D-14 and the second crew starting at row C, at C-3, they installed meter pits, multiple curb stops, 3"x1" and 8"x1" saddle corporation stops on 3" & 8" ø HDPE mainlines, as well as 1" HDPE service pipes to all Units. GES Representative Chad Hill is notifying residents in advance. Advanced Tree Service continued cutting the tree by A-12 today, they were still on-site at 5:25 PM. NCC continued to install services up under the Mobile Homes, in a plastic pail with 1" ball valve shut offs and pipe insulation. NCC completed installs at MH C-3, MH C-4, MH A-6, MH E-14, MH E-15, MH F-2, MH F-3, MH D-14, MH E-11 and MH E-13 today. Volney Multiplex was called in due to an electrical outage at trailer D-14 that was caused when an excavator uncovered unmarked electrical. The unmarked electrical included about 8 dead wires and 3 live wires. The crew excavating near trailer F-3 hit water main E, a 3-inch pipe and a 1-inch pipe. The crews stayed after 5:30pm to resolve the issue. Soil saturated with water was removed from the excavation and replaced with gravel and stockpiled dry soil. Three NCC employees were still on-site at 5:30 PM, along with Chad Hill from GES.

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 10 |
| Tanner Sullivan | North Country Contracting | Foreman | 10 |
| Tim Zubrzycki | NCC | Foreman / Technician | 10 |
| Ken Burns | NCC | Laborer | 10 |
| Jirah Palmer | NCC | B Operator | 10 |
| Marty Jones | NCC | B Operator | 10 |
| Tony Zubrzycki | NCC | B Operator | 10 |
| Cody Zubrzycki | NCC | Laborer | 10 |
| Todd Sullivan | NCC | Foreman | 10 |
| Jeff Harrington | Advanced Tree Service | Owner / Operator | 9.5 |
| Jay Acker | ATS | Laborer | 9.5 |
| Terry Souva | NCC | Technician | 10 |

| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 9 |
| Caterpillar 416it rubber tire backhoe | " | 1 | 6 |
| HDPE pipe electro fusion machine | " | 1 | 4 |
| 7000 Kw generator | " | 1 | 5 |
| Caterpillar 304E Track Hoe | " | 2 | 9 |
| Caterpillar 308 Track Hoe | " | 2 | 9 |
| Plate compactor | " | 1 | 5 |
| Cat 289C Skid Steer Loader | " | 1 | 8 |
| Hitachi EDX120 Track hoe | " | 1 | 0 |
| Bucket truck | Advance Tree Service | 2 | 8 |
| Skid Steer | " | 1 | 1 |
| Tree Chipper | " | 1 | 4 |
| Stump Grinder | " | 1 | 0 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
|---|---|---|---|---|---|---|
| 1" ø HDPE pipe | X | | | | | |
| 1" ø Couplings | X | | | | | |
| Insulation | X | | | | | |
| Item 4 bedding material | X | | | | | |
| Tracer wire | X | | | | | |
| Meter Pits | X | | | | | |
| 1" curb stops | X | | | | | |
| Meter assembly w/ PRV & Meter | X | | | | | |
| Curb box risers and box w/ covers | X | | | | | |
| 3"x1" & 8"x1" HDPE pipe saddles | X | | | | | |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

| **Visitors to Site** | | | |
|---|---|---|---|
| **Name** | **Representing** | **Entered Exclusion/CRZ Zone** | |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |

**Project Schedule Comments**

**Issues Pending**

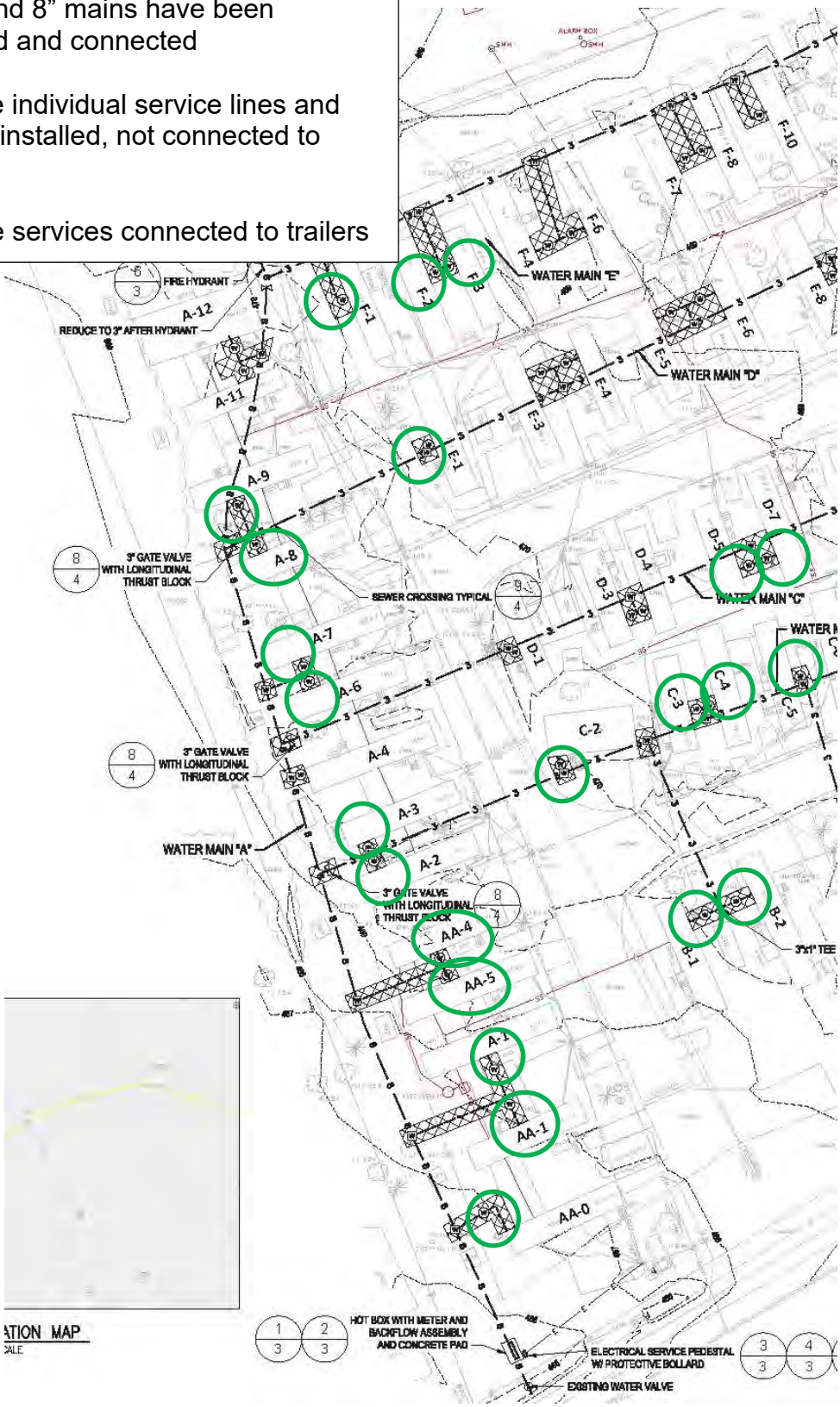
**Interaction with Public, Property Owners, Media, etc.**

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

All 3" and 8" mains have been installed and connected

Indicate individual service lines and meters installed, not connected to trailers

Indicate services connected to trailers




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
CURB STOP AN METER ONLY
3"x1" TEE
CASING

| | |
|---|---|
|  |  |
| Unmarked electric near D-14 trailer. | Meter Pit installation. |
|  |  |
| Advanced Tree Service working on tree near A-12. | Advanced Tree Service tree chipper being used. |
|  |  |
| A plastic pail with 1” ball valve shut offs and pipe insulation. | Excavating at Mobile Home Row E. |

| **Comments** | |
|---|---|
| 50 of 69 meter pits/services installed- today they installed E-13, E-14, E-15, E-11, F-2, D-14, and F-3 for a total of seven today.<br><br>0 connections made to municipal water supply today. | |
| **Site Inspector(s):** Lindsay Mairs | **Date: 10/23/2019** |

# DAILY INSPECTION REPORT



Report No. 024 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/24/2019

| | | |
|---|---|---|
| NYSDEC<br>Division of<br>Environmental Remediation | **EA Engineering, P.C.**<br>269 W Jefferson St<br>Syracuse, New York 13202 | **NYSDEC Contract No. D011354**<br>NCC Superintendent: Jeff Proulx<br>NYSDEC PM: David Chiusano<br>GES PM: Scott McDonald<br>EA PM: Megan Miller<br>EA Site Inspector: Steve Van Arnam |

**Site Location:** Volney, New York

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Cloudy, breezy | AM | Clouds & rain | PM |
| **Temperature** | 52° *f* | AM | 58° *f* | PM |
| **Wind Direction** | SW, 10 MPH | AM | Calm | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, NCC reviewed excavation for services, HDPE service pipe handling, and meter pit installations. Advanced Tree Service is tree trimming by A-8 and cleanup today, reviewed PPE. All signed onto the HASP sign in sheet.

| **Summary of Work Performed** | Arrived at site: | 7:00 AM | Departed Site: | 4:30 PM |
|---|---|---|---|---|

GES, Subcontractors NCC, and Advanced Tree Service are on site today. NCC has eight workers on site, three Foremen, three 'B' Operators, and two Laborers. They are Tanner Sullivan, Tim Zubrzycki, Todd Sullivan, Ken Burns, Cody Zubrzycki, Jirah Palmer, Tony Zubrzycki, and Marty Jones. Advance Tree Service has two workers, cutter and ground worker loading out limbs with a skid steer. Today NCC continued installation of water service lines, meter setting pits, and water meters to mobile homes on rows 'E' and 'F'. They have two crews excavating today, both crews on Mobile Home Park Row 'E', starting at E-10, and a double at E-11 and E-13, later the 2nd crew moved on to Row 'F' starting at Mobile Homes F-14 and F-15, they installed meter pits, multiple curb stops, 3"x1" saddle corporation stops on 3" ø HDPE mainlines, as well as 1" HDPE service pipes to all Units. GES Representative Chad Hill is notifying residents in advanced. Advanced Tree Service began trimming tree in A row today, and they loaded tree trunks onto trailer for removal from site. NCC continue to install services up under the Mobile Homes, in a plastic pail with 1" ball valve shut offs and pipe insulation. NCC completed installs at MH F-14, and F-15, MH E-4, MH E-5, MH E-6, MH E-8, MH E-9, MH E-10, MH E-11 and MH E-13 today. The pipe crews ended service installs by 4:00 PM, began to backfill all excavations, and secure equipment and materials for the night. All crews were off site by 5:30 PM.

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 10 |
| Tanner Sullivan | North Country Contracting | Foreman | 10 |
| Tim Zubrzycki | NCC | Foreman / Technician | 10 |
| Ken Burns | NCC | Laborer | 10 |
| Jirah Palmer | NCC | B Operator | 10 |
| Marty Jones | NCC | B Operator | 10 |
| Tony Zubrzycki | NCC | B Operator | 10 |
| Cody Zubrzycki | NCC | Laborer | 10 |
| Todd Sullivan | NCC | Foreman | 10 |
| Jeff Harrington | Advanced Tree Service | Owner / Operator | 8 |
| Jay Acker | ATS | Laborer | 8 |
| Jeff Proulx | NCC | Project manager | 1 |

| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 9 |
| Caterpillar 416it rubber tire backhoe | " | 1 | 4 |
| HDPE pipe electro fusion machine | " | 1 | 4 |
| 7000 Kw generator | " | 1 | 4 |
| Caterpillar 304E Track Hoe | " | 2 | 18 |
| Caterpillar 308 Track Hoe | " | 1 | 9 |
| Plate compactor | " | 1 | 4 |
| Cat 289C Skid Steer Loader | " | 1 | 8 |
| Hitachi EDX120 Track hoe | " | 1 | 0 |
| Bucket truck | Advance Tree Service | 2 | 5 |
| Skid Steer | " | 1 | 1 |
| Tree Chipper | " | 1 | 4 |
| Stump Grinder | " | 1 | 0 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
|---|---|---|---|---|---|---|
| 1" ø HDPE pipe | X | | | | | |
| 1" ø Couplings | X | | | | | |
| Insulation | X | | | | | |
| Item 4 bedding material | X | | | | | |
| Tracer wire | X | | | | | |
| Meter Pits | X | | | | | |
| 1" curb stops | X | | | | | |
| Meter assembly w/ PRV & Meter | X | | | | | |
| Curb box risers and box w/ covers | X | | | | | |
| 3"x1" HDPE pipe saddles | X | | | | | |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

**Visitors to Site**

| Name | Representing | Entered Exclusion/CRZ Zone | |
|---|---|---|---|
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |

**Project Schedule Comments**

**Issues Pending**

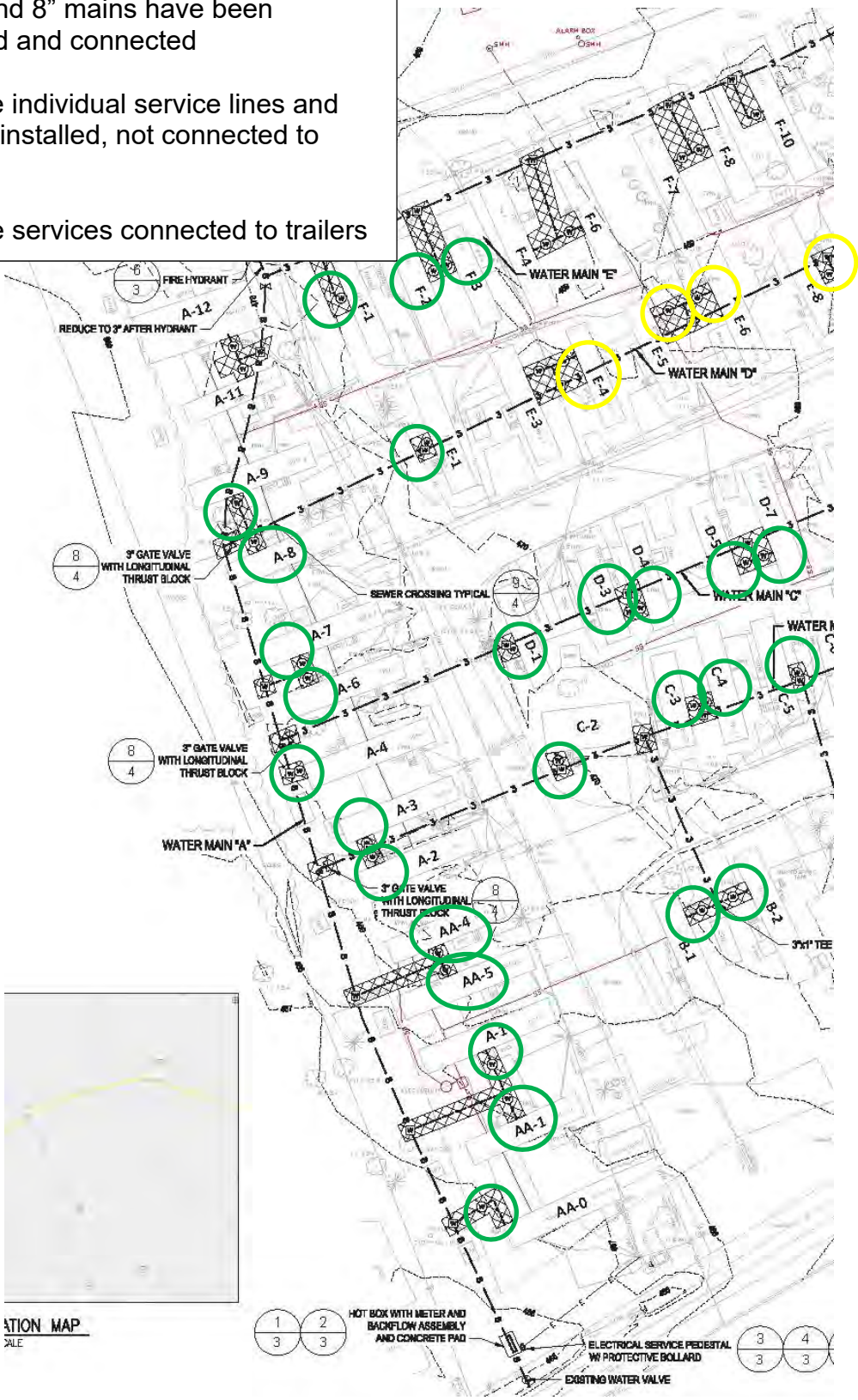
**Interaction with Public, Property Owners, Media, etc.**

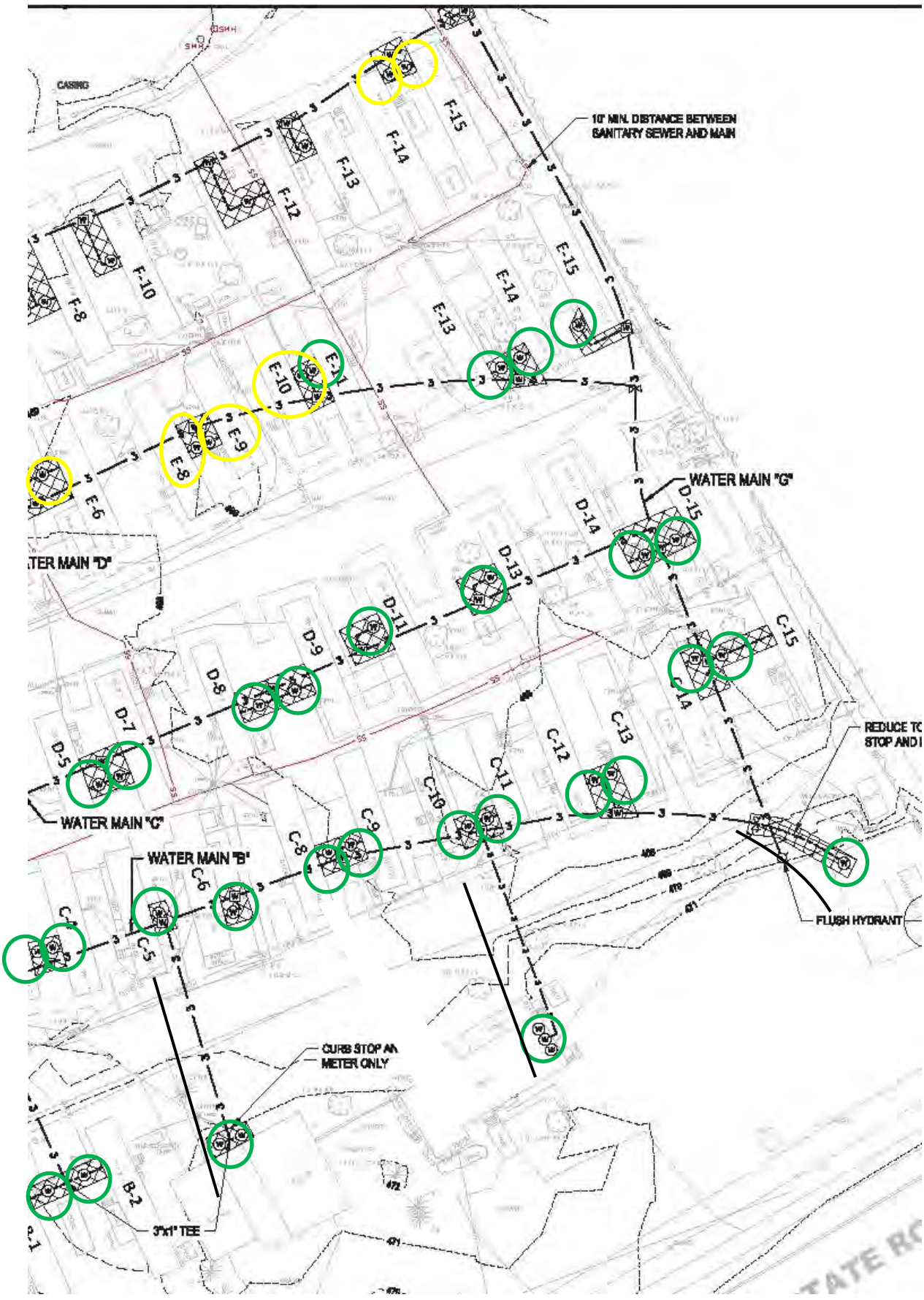
Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

All 3" and 8" mains have been installed and connected

Indicate individual service lines and meters installed, not connected to trailers

Indicate services connected to trailers




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
CURB STOP AN METER ONLY
3"x1" TEE
CASING

| | |
|---|---|
|  |  |
| Excavator working close to Mobile Home, excavating for new water service. | Excavating for 1” HDPE pipe for service to Mobile Home. |
|  |  |
| Spoil pile from meter pit water line. | Trench for water service to meter pits. |
|  |  |
| HDPE fusion equipment and generator. | Meter pits installed at Mobile Homes E-14 and E-15. |

| **Comments** | |
|---|---|
| 56 of 69 meter pits/services installed- today they installed F-14, F-15, E-4, E-5, E-6, E-8, E-9, E-10, E-11, and E-13 for a total of ten today.<br><br>0 connections made to municipal water supply today. | |
| **Site Inspector(s):** Steven Van Arnam | **Date: 10/24/2019** |

# DAILY INSPECTION REPORT

Report No. 025 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/25/2019

| | | |
|---|---|---|
| NYSDEC<br>Division of<br>Environmental Remediation | **EA Engineering, P.C.**<br>269 W Jefferson St<br>Syracuse, New York 13202 | **NYSDEC Contract No. D011354**<br>NCC Superintendent: Jeff Proulx<br>NYSDEC PM: David Chiusano<br>GES PM: Scott McDonald<br>EA PM: Megan Miller<br>EA Site Inspector: Steve Van Arnam |

**Site Location:** Volney, New York

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Cloudy | AM | Cloudy | PM |
| **Temperature** | 47° *f* | AM | 53° *f* | PM |
| **Wind Direction** | Calm | AM | Calm | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, NCC reviewed excavation for services, HDPE service pipe handling, and meter pit installations. Advanced Tree Service is tree trimming by A-11 and cleanup today, reviewed PPE. All signed onto the HASP sign in sheet.

| **Summary of Work Performed** | Arrived at site: | 7:00 AM | Departed Site: | 4:30 PM |
|---|---|---|---|---|

GES, Subcontractors NCC, and Advanced Tree Service are on site today. NCC has eight workers on site, three Foremen, three 'B' Operators, and two Laborers. They are Tanner Sullivan, Tim Zubrzycki, Todd Sullivan, Ken Burns, Cody Zubrzycki, Jirah Palmer, Tony Zubrzycki, and Marty Jones. Advance Tree Service has two workers, cutter and ground worker finishing tree at A-11. Today NCC continued installation of water service lines, meter setting pits, and water meters to mobile homes on rows "A', 'E' and 'F'. One crew excavated on Mobile Home Park Row 'E', to complete E-3, the last unit on this row. Following this unit, they moved to Row 'A' and did A-11 and A-12. The 2nd crew is on Row 'F' installing meters and services to Mobile Homes F-12 and F-13, they installed meter pits, multiple curb stops, 3"x1" saddle corporation stops on 3" ø HDPE mainlines, as well as 1" HDPE service pipes to all Units. GES Representative Chad Hill is notifying residents in advanced. Advanced Tree Service finishing tree work on A row today, and they moved to Row D to begin the final tree removal. NCC had two operators and 2 laborers leave after the meters were completed. The three foremen graded stone for concrete at the meter assembly and finished installing meters in meter pits. They completed installs at MH A-11, MH A-12, E-3, F-12, and MH F-13 today. The pipe crews ended service installs by 3:00 PM, began to backfill all excavations, and secure equipment and materials for the night. All crews were off site by 3:30 PM.

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 8 |
| Tanner Sullivan | North Country Contracting | Foreman | 8 |
| Tim Zubrzycki | NCC | Foreman / Technician | 8 |
| Ken Burns | NCC | Laborer | 8 |
| Jirah Palmer | NCC | B Operator | 8 |
| Marty Jones | NCC | B Operator | 8 |
| Tony Zubrzycki | NCC | B Operator | 8 |
| Cody Zubrzycki | NCC | Laborer | 8 |
| Todd Sullivan | NCC | Foreman | 8 |
| Jeff Harrington | Advanced Tree Service | Owner / Operator | 8 |
| Jay Acker | ATS | Laborer | 8 |
| | | | |

| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 9 |
| Caterpillar 416it rubber tire backhoe | " | 1 | 4 |
| HDPE pipe electro fusion machine | " | 1 | 4 |
| 7000 Kw generator | " | 1 | 4 |
| Caterpillar 304E Track Hoe | " | 2 | 18 |
| Caterpillar 308 Track Hoe | " | 1 | 9 |
| Plate compactor | " | 1 | 4 |
| Cat 289C Skid Steer Loader | " | 1 | 8 |
| Hitachi EDX120 Track hoe | " | 1 | 0 |
| Bucket truck | Advance Tree Service | 2 | 8 |
| Skid Steer | " | 1 | 1 |
| Tree Chipper | " | 1 | 6 |
| Stump Grinder | " | 1 | 0 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
|---|---|---|---|---|---|---|
| 1" ø HDPE pipe | X | | | | | |
| 1" ø Couplings | X | | | | | |
| Insulation | X | | | | | |
| Item 4 bedding material | X | | | | | |
| Tracer wire | X | | | | | |
| Meter Pits | X | | | | | |
| 1" curb stops | X | | | | | |
| Meter assembly w/ PRV & Meter | X | | | | | |
| Curb box risers and box w/ covers | X | | | | | |
| 3"x1" HDPE pipe saddles | X | | | | | |
| 8"x1" HDPE pipe saddle | X | | | | | |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

**Visitors to Site**

| Name | Representing | Entered Exclusion/CRZ Zone | |
|---|---|---|---|
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |

**Project Schedule Comments**

**Issues Pending**

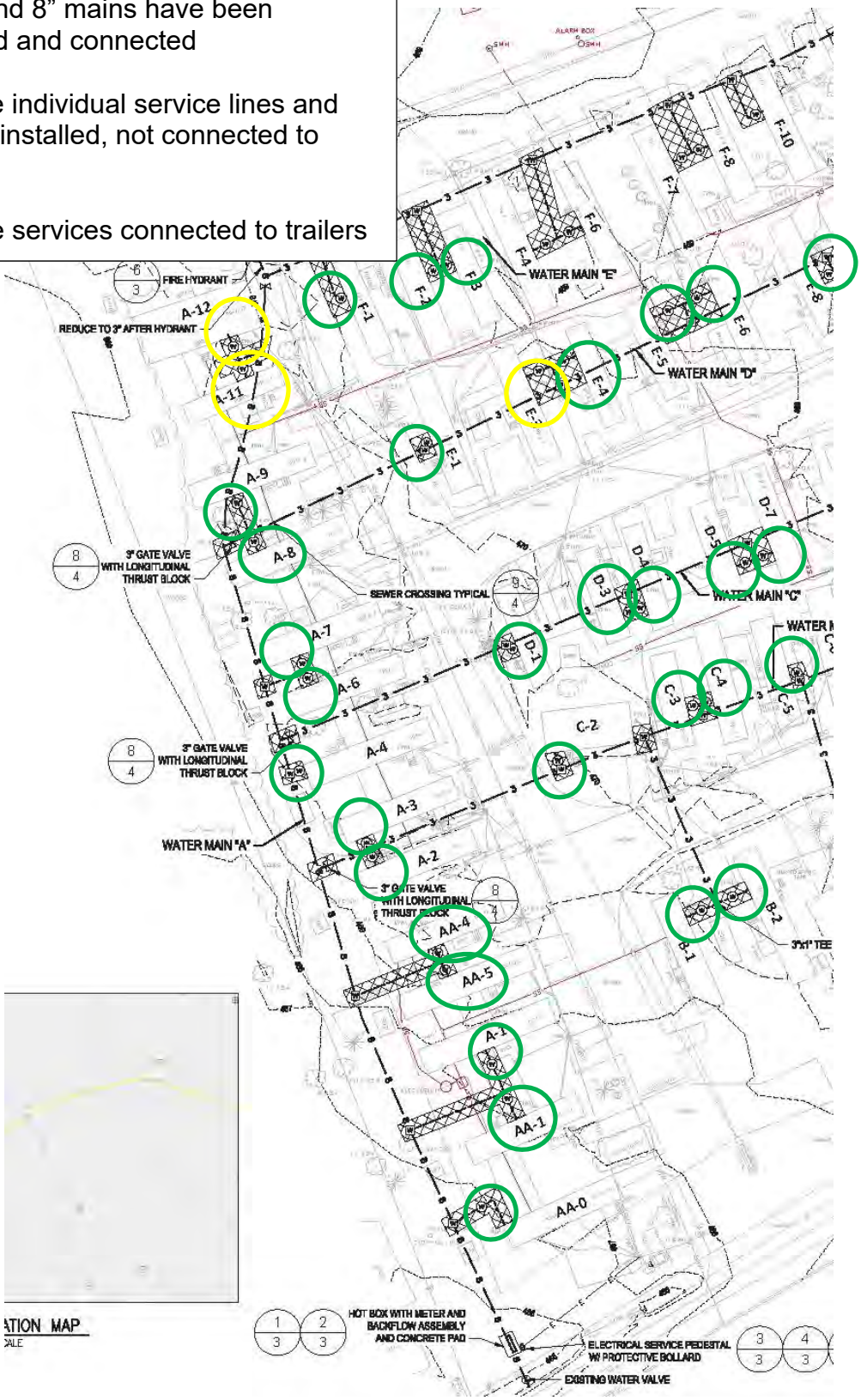
**Interaction with Public, Property Owners, Media, etc.**

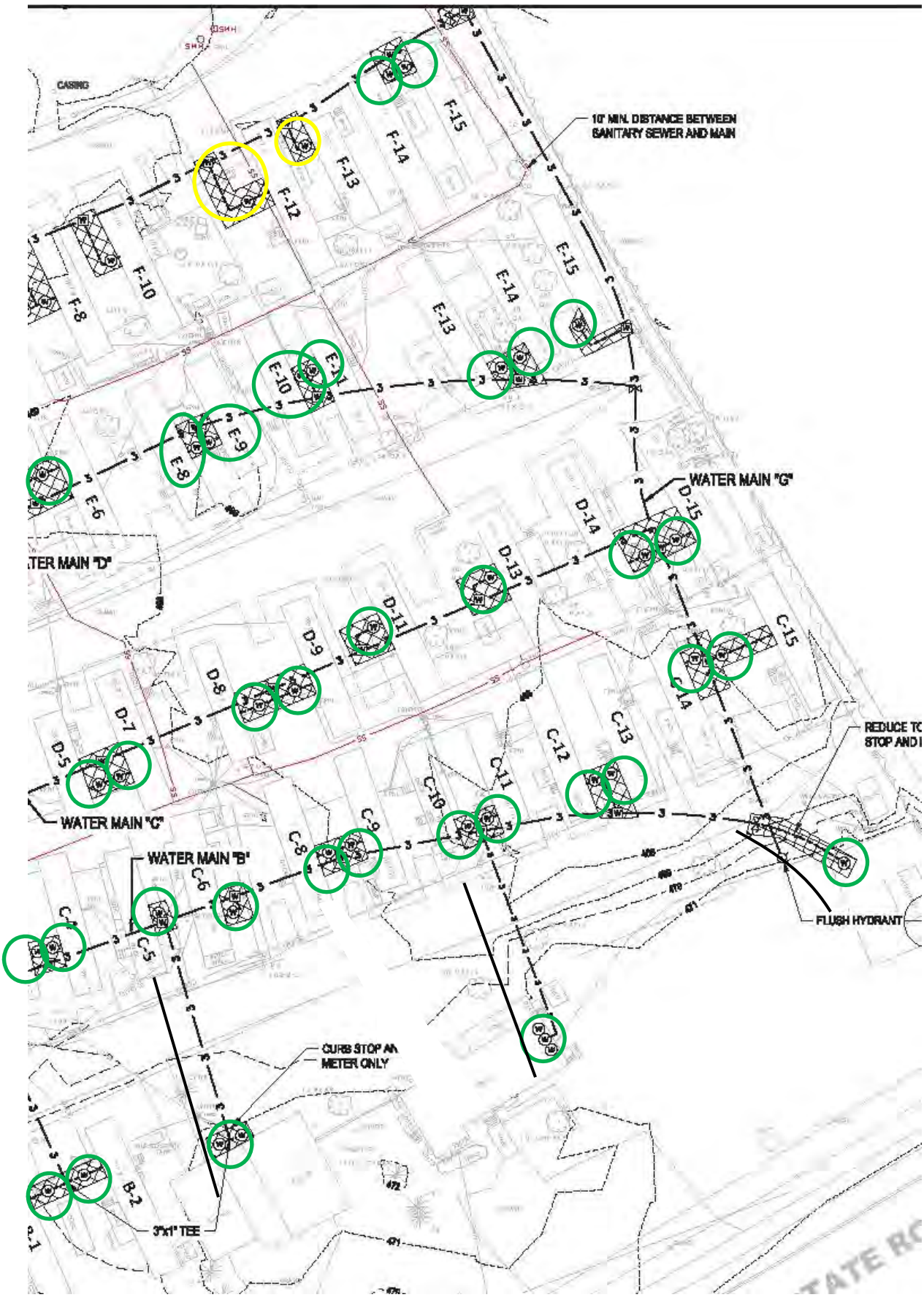
Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

All 3" and 8" mains have been installed and connected

Indicate individual service lines and meters installed, not connected to trailers

Indicate services connected to trailers




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
CURB STOP AN METER ONLY
3"x1" TEE
CASING



Meter assembly area, preparing for concrete next week.



Meter assembly and backflow preventer.



Electrical box at feed to “Hot Box”.



Lawn area used for meter assembly access.



Securing materials with skid steer.



Cleaning up select backfill materials.

| **Comments** | |
|---|---|
| 62 of 69 (Includes 3 @ Apartment House) meter pits/services installed- today they installed A-11, A-12, E-3, F-12, and F-13 for a total of five today.<br><br>0 connections made to municipal water supply today. | |
| **Site Inspector(s):** Steven Van Arnam | **Date: 10/25/2019** |

# DAILY INSPECTION REPORT

Report No. 026 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/28/2019

| | | |
|---|---|---|
| NYSDEC<br>Division of<br>Environmental Remediation | **EA Engineering, P.C.**<br>269 W Jefferson St<br>Syracuse, New York 13202 | **NYSDEC Contract No. D011354**<br>NCC Superintendent: Jeff Proulx<br>NYSDEC PM: David Chiusano<br>GES PM: Scott McDonald<br>EA PM: Megan Miller<br>EA Site Inspector: Steve Van Arnam |

**Site Location:** Volney, New York

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Clouds & sun | AM | Mostly sunny | PM |
| **Temperature** | 51° *f* | AM | 60° *f* | PM |
| **Wind Direction** | Calm | AM | Calm | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, NCC reviewed excavation for services, HDPE service pipe handling, and meter pit installations. Advanced Tree Service is doing fifth tree removal by Home D-11 today, reviewed PPE. All signed onto the HASP sign in sheet.

| **Summary of Work Performed** | Arrived at site: | 7:00 AM | Departed Site: | 4:45 PM |
|---|---|---|---|---|

GES, Subcontractors NCC, and Advanced Tree Service are on site today. NCC has eight workers on site, three Foremen, three 'B' Operators, and two Laborers. They are Tanner Sullivan, Tim Zubrzycki, Todd Sullivan, Ken Burns, Cody Zubrzycki, Jirah Palmer, Tony Zubrzycki, and Marty Jones. Advance Tree Service has two workers, cutter and ground worker cutting tree at D-11 whose roots were hit when installing the water service. NCC is doing installation of five remaining water services, meter setting pits, and water meters to mobile homes on Park Row 'F'. Two crews started, one crew doing a single service and meter pit at Mobile Home F-10, the last single unit on this row. The other crew installed services and meter pits at double units, units with two meter pits between them, at Mobile Homes F-4 and F-6. Representative from Jerome Fire Equipment was onsite in AM and tested and certified the backflow preventor in the main meter assembly 'hot box', GES to forward paperwork. In the afternoon NCC did services to double units at Mobile Homes F-7 and F-8. They have now completed installing all meter pits on the Project and a Foreman has completed installing meters in the pits per design. GES Representative Chad Hill is notifying residents in advance of anticipated water services connections to public supply lines, anticipated midweek. Advanced Tree Service finishing tree removal of fifth tree, whose roots were compromised during service installation. This tree is adjacent to Mobile Home D-11. A foreman and Operator placed stone, graded it, and set forms for concrete at the meter assembly 'hot box' currently scheduled for tomorrow. They completed installs at MH F-4, MH F-6, MH F-7, MH F-8, and MH F-10 today. The pipe crews completed service installs by 4:00 PM, began to backfill all excavations, and secure equipment and materials for the night. All crews were off site by 4:45 PM.

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 8 |
| Tanner Sullivan | North Country Contracting | Foreman | 8 |
| Tim Zubrzycki | NCC | Foreman / Technician | 8 |
| Ken Burns | NCC | Laborer | 8 |
| Jirah Palmer | NCC | B Operator | 8 |
| Marty Jones | NCC | B Operator | 8 |
| Tony Zubrzycki | NCC | B Operator | 8 |
| Cody Zubrzycki | NCC | Laborer | 8 |
| Todd Sullivan | NCC | Foreman | 8 |
| Jeff Harrington | Advanced Tree Service | Owner / Operator | 8 |
| Jay Acker | ATS | Laborer | 8 |
| | | | |

| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 9 |
| Caterpillar 416it rubber tire backhoe | " | 1 | 4 |
| HDPE pipe electro fusion machine | " | 1 | 4 |
| 7000 Kw generator | " | 1 | 4 |
| Caterpillar 304E Track Hoe | " | 2 | 18 |
| Caterpillar 308 Track Hoe | " | 1 | 9 |
| Plate compactor | " | 1 | 4 |
| Cat 289C Skid Steer Loader | " | 1 | 8 |
| Hitachi EDX120 Track hoe | " | 1 | 0 |
| Bucket truck | Advance Tree Service | 2 | 8 |
| Skid Steer | " | 1 | 1 |
| Tree Chipper | " | 1 | 6 |
| Stump Grinder | " | 1 | 0 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
|---|---|---|---|---|---|---|
| 1" ø HDPE pipe | X | | | | | |
| 1" ø Couplings | X | | | | | |
| Insulation | X | | | | | |
| Item 4 bedding material | X | | | | | |
| Tracer wire | X | | | | | |
| Meter Pits | X | | | | | |
| 1" curb stops | X | | | | | |
| Meter assembly w/ PRV & Meter | X | | | | | |
| Curb box risers and box w/ covers | X | | | | | |
| 3"x1" HDPE pipe saddles | X | | | | | |
| 8"x1" HDPE pipe saddle | X | | | | | |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

**Visitors to Site**

| Name | Representing | Entered Exclusion/CRZ Zone | |
|---|---|---|---|
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |

**Project Schedule Comments**

**Issues Pending**

**Interaction with Public, Property Owners, Media, etc.**

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

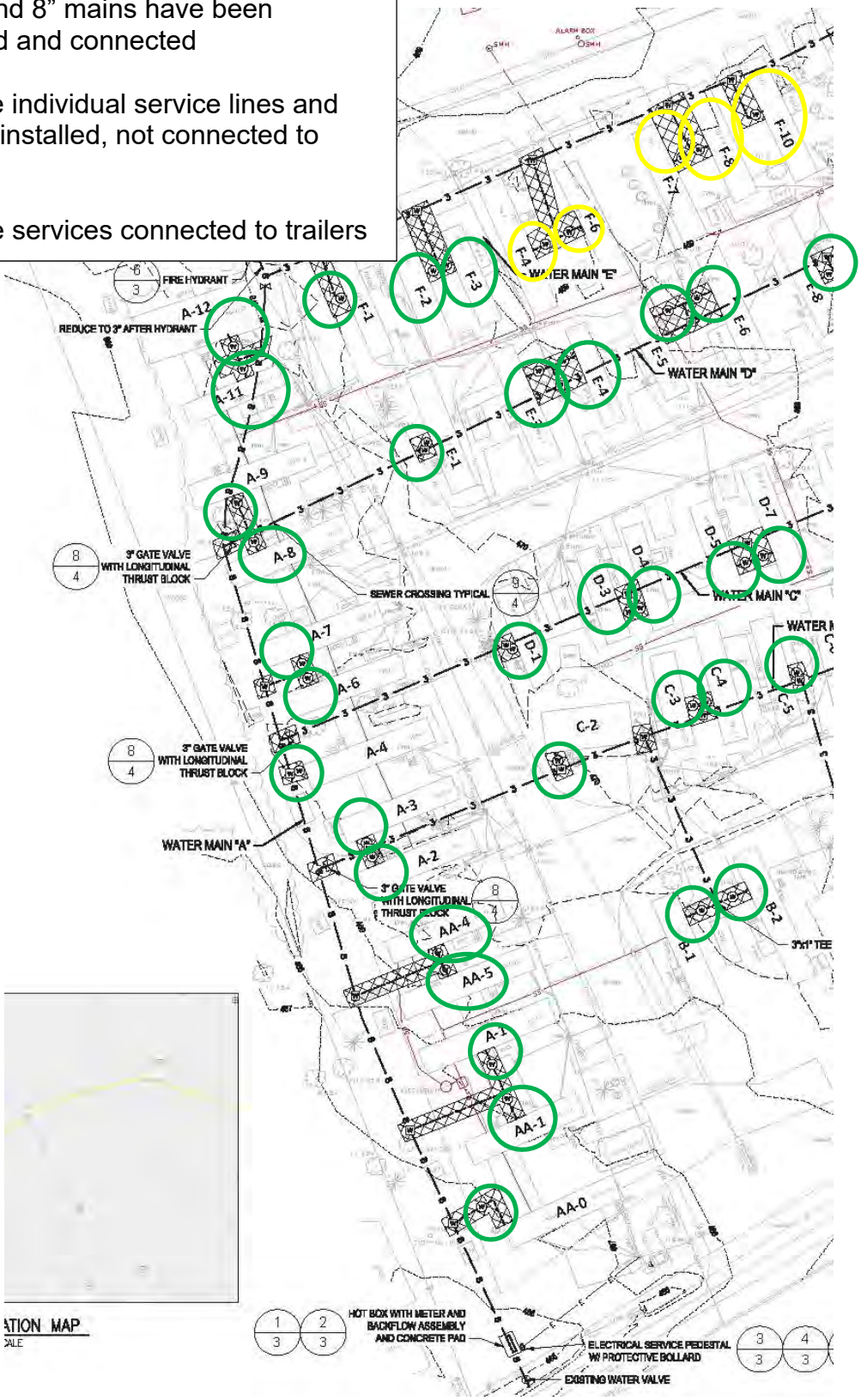
GES Began giving 24 hour notices of water interruptions for final connections today.

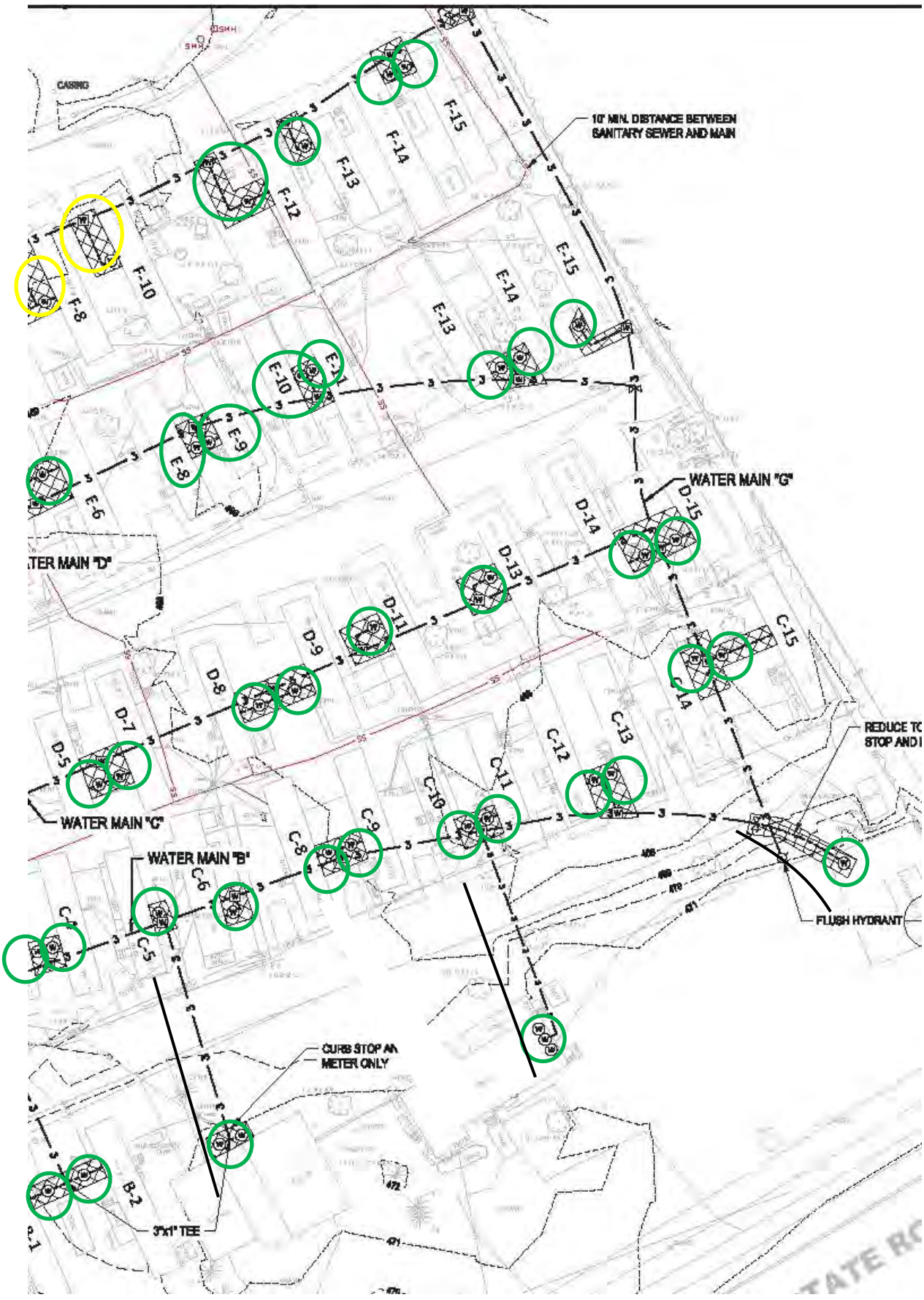
Report No. 026 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/28/2019

All 3" and 8" mains have been installed and connected

Indicate individual service lines and meters installed, not connected to trailers

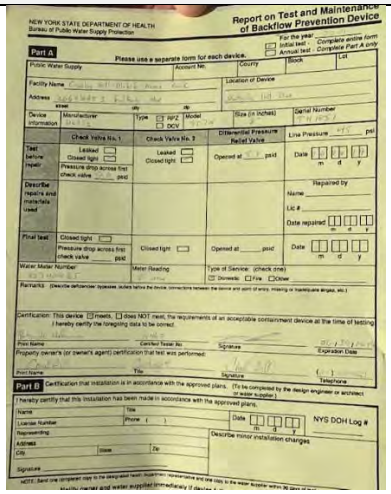
Indicate services connected to trailers




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
CURB STOP AN METER ONLY
3"x1" TEE
F-8
F-10
F-12
F-13
F-14
F-15
E-6
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E-11
E-13
E-14
E-15
D-5
D-7
D-8
D-9
D-11
D-13
D-14
D-15
C-5
C-6
C-8
C-9
C-10
C-11
C-12
C-13
C-15
B-2



Meter assembly backflow preventer certified today.




Backflow preventer certificate of inspection.




Backflow device inspection tag.



1” HDPE Fused on saddle for service to Mobile Home.



Meter pits at Mobile Homes F-7 & F-8.



Cleaned up area after backfilling, Mobile Homes D-4 & D-6.

| **Comments** | |
|---|---|
| 66 of 69 services: (Includes 3 @ Apartment House w/out M.P.'s) meter pits/services installed- today they installed F-4, F-6, F-7, F-8, and F-10 for a total of five today.<br><br>0 connections made to municipal water supply today. | |
| **Site Inspector(s):** Steven Van Arnam | **Date: 10/28/2019** |

# DAILY INSPECTION REPORT

Report No. 027 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/29/2019

| | | |
|---|---|---|
| NYSDEC<br>Division of<br>Environmental Remediation | **EA Engineering, P.C.**<br>269 W Jefferson St<br>Syracuse, New York 13202 | **NYSDEC Contract No. D011354**<br>NCC Superintendent: Jeff Proulx<br>NYSDEC PM: David Chiusano<br>GES PM: Scott McDonald<br>EA PM: Megan Miller<br>EA Site Inspector: Steve Van Arnam |

**Site Location:** Volney, New York

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Clear & sunny | AM | Sunny | PM |
| **Temperature** | 57° *f* | AM | 64° *f* | PM |
| **Wind Direction** | SW 5-10 MPH | AM | SW 5-10 MPH | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, NCC reviewed concrete placement, HDPE service pipe handling and connections. Advanced Tree Service is finishing fifth tree removal by Home D-11 today, reviewed PPE. All signed onto the HASP sign in sheet.

| **Summary of Work Performed** | Arrived at site: | 7:00 AM | Departed Site: | 5:15 PM |
|---|---|---|---|---|

GES, Subcontractors NCC, and Advanced Tree Service are on site today. NCC has eight workers on site, three Foremen, three 'B' Operators, and two Laborers. They are Tanner Sullivan, Terry Souva, Todd Sullivan, Ken Burns, Cody Zubrzycki, Jirah Palmer, Tony Zubrzycki, and Marty Jones. Advance Tree Service has two workers, cutter and ground worker cutting tree at D-11 whose roots were hit when installing the water service. NCC is making final connections beneath Mobile Homes in the Park, mostly along Rows 'B' ad 'C'. They are installing 1" HDPE, heat trace, and pipe insulation. They started at east end of Row 'C', Mobile Homes C-8, and C-16 were noted to be leaking, Homeowners and Park Owner were both notified. Two workers completed forms and grading for concrete at the 'Hot Box' for placing new concrete base slab. Concrete arrived at 12:30 PM- NCC placed 8 Cu.Yds. of concrete, floated and finished with broom finish to floor drain at cent of structure. Crew continued doing a final connection into the afternoon, ending work for the day at 4:30 PM. GES Onsite Representative Chad Hill is continuing to notify residents in advance of anticipated water services connections to public supply lines the remainder of the week. Advanced Tree Service finished tree removal adjacent to Mobile Home D-11. NCC completed connections at 3 Unit apartment house, MH C-16, MH C-14, MH C-13/115, MH C-12, MH C-11, MH C-10, MH C-9, MH C-8, MH C-7, MH C-2, MH-C5, MH C-4, MH C-3, MH B-1, MH D-3, MH D-4, MH B-2, and MH D-10 today. All crews were off site for the day by 5:15 PM.

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 10 |
| Tanner Sullivan | North Country Contracting | Foreman | 10 |
| Todd Zubrzycki | NCC | Foreman / Technician | 10 |
| Ken Burns | NCC | Laborer | 10 |
| Jirah Palmer | NCC | B Operator | 10 |
| Marty Jones | NCC | B Operator | 10 |
| Tony Zubrzycki | NCC | B Operator | 10 |
| Cody Zubrzycki | NCC | Laborer | 10 |
| Terry Souva | NCC | Foreman | 8 |
| Jeff Harrington | Advanced Tree Service | Owner / Operator | 9 |
| Jay Acker | ATS | Laborer | 9 |
| | | | |

| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 9 |
| Caterpillar 416it rubber tire backhoe | " | 1 | 0 |
| Cat 289C Skid Steer | " | 1 | 8 |
| Hitachi EDX120 Track Hoe | " | 1 | 4 |
| Caterpillar 304E Track Hoe | " | 2 | 4 |
| Caterpillar 308 Track Hoe | " | 1 | 5 |
| 7000 Watt generator | " | 1 | 1 |
| Bucket truck | Advance Tree Service | 2 | 8 |
| Skid Steer | " | 1 | 1 |
| Tree Chipper | " | 1 | 6 |
| Stump Grinder | " | 1 | 0 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
|---|---|---|---|---|---|---|
| 1" ø HDPE pipe | X | | | | | |
| 1" ø Couplings | X | | | | | |
| Pipe insulation | X | | | | | |
| Heat trace | X | | | | | |
| Tye wraps / electrical tape | X | | | | | |
| 8 Cu.Yds. concrete for 'Hot Box' | X | | | | | |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

**Visitors to Site**

| Name | Representing | Entered Exclusion/CRZ Zone | |
|---|---|---|---|
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |

**Project Schedule Comments**

**Issues Pending**

**Interaction with Public, Property Owners, Media, etc.**

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

GES continued to provide 24 hour notices of water interruptions for final connections today.

All 3" and 8" mains have been installed and connected

Indicate individual service lines and meters installed, not connected to trailers

Indicate services connected to trailers




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
CURB STOP AN METER ONLY
3"x1" TEE

| | |
|---|---|
|  |  |
| Restoring driveways impacted by construction activities. | Placing concrete at Meter Assembly / Backflow Preventer structure. |
|  |  |
| Screeding concrete at 'Hot Box' structure. | New conduit to existing sewage pump with damaged electrical line. |
|  |  |
| Existing electric box at effluent pump. | Concrete foundation for 'Hot Box' building. |

| **Comments** | |
|---|---|
| 66 of 69 services: (Includes 3 @ Apartment House w/out M.P.'s) All meter pits/services are installed to Mobile Homes/Apartment.<br><br>20 of 69 connections have been made. Today three apartments in house on Row 'B' and seventeen Mobile Homes have been connected to the municipal water supply today. They are the three Unit Apartment House- (Unit #1, Unit #2, & Unit #3), MH C-16, MH C-14, MH C-13/115, MH C-12, MH C-11, MH C-10, MH C-9, MH C-8, MH C-7, MH C-2, MH-C5, MH C-4, MH C-3, MH B-1, MH D-3, MH D-4, MH B-2, and MH D-10 today. | |
| **Site Inspector(s):** Steven Van Arnam | **Date: 10/29/2019** |

# DAILY INSPECTION REPORT

Report No. 028 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/30/2019

| | | |
|---|---|---|
| NYSDEC<br>Division of<br>Environmental Remediation | **EA Engineering, P.C.**<br>269 W Jefferson St<br>Syracuse, New York 13202 | **NYSDEC Contract No. D011354**<br>NCC Superintendent: Jeff Proulx<br>NYSDEC PM: David Chiusano<br>GES PM: Scott McDonald<br>EA PM: Megan Miller<br>EA Site Inspector: Steve Van Arnam |

**Site Location:** Volney, New York

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Cloudy | AM | Cloudy | PM |
| **Temperature** | 57° *f* | AM | 64° *f* | PM |
| **Wind Direction** | Calm | AM | Calm | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, NCC reviewed concrete placement, HDPE service pipe handling and connections. Advanced Tree Service is grinding tree stump by Home D-11 today, reviewed PPE. All signed onto the HASP sign in sheet.

| **Summary of Work Performed** | Arrived at site: | 7:00 AM | Departed Site: | 4:30 PM |
|---|---|---|---|---|

GES, Subcontractors NCC, and Advanced Tree Service are on site today. Representatives from NYS D.E.C. were on site today reviewing activities and completed work. NCC has eight workers on site, three Foremen, three 'B' Operators, and two Laborers. They are Tanner Sullivan, Terry Souva, Todd Sullivan, Ken Burns, Cody Zubrzycki, Jirah Palmer, Tony Zubrzycki, and Marty Jones. Advance Tree Service has one worker, the Owner, he is grinding tree stump at D-11. NCC is making final connections beneath Mobile Homes in the Park, mostly along Rows 'D' 'E', 'F', and 'A'. They are installing 1" HDPE, heat trace, and pipe insulation. They started at east end of Row 'D', Mobile Homes D-1, and completed row. One trailer had no electric, and two were noted to be leaking sanitary, Homeowners and Park Owner were both notified. Crews continued to do final connections into the afternoon, along Rows 'E' and 'F', as well as starting Row 'A' at NYS Route #3 and working towards the back. Several issues noted at the Mobile Homes today, leaking water, broken sanitary, and lack of power for heat trace. Park Owner Todd Redhead was notified as well as residents of each defective unit. Crew ended work for the day at 4:30 PM. GES Onsite Representative Chad Hill is continuing to notify residents in advance of remaining water services connections to public supply lines tomorrow. NCC completed connections at thirty Mobile Homes today, they were- MH F-1, MH E-1, MH D-1, MH E-15, MH E-14, MH E-10, MH D-14, MH F-2, MH F-3, MH D-15, MH D-11, MH D-13, MH D-9, MH D-8, MH D-7, MH D-5, MH AA-0, MH AA-1, MH AA-3, MH E-11, MH E-13, MH E-9, MH E-8, MH E-6, MH E-5, MH E-4, MHE-3, MH F-4, MH F-7, and MH F-8 today. All crews were off site for the day by 4:30 PM.

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 10 |
| Tanner Sullivan | North Country Contracting | Foreman | 10 |
| Todd Zubrzycki | NCC | Foreman / Technician | 10 |
| Ken Burns | NCC | Laborer | 10 |
| Jirah Palmer | NCC | B Operator | 10 |
| Marty Jones | NCC | B Operator | 10 |
| Tony Zubrzycki | NCC | B Operator | 10 |
| Cody Zubrzycki | NCC | Laborer | 10 |
| Terry Souva | NCC | Foreman | 8 |
| Jeff Harrington | Advanced Tree Service | Owner / Operator | 3 |
| | | | |
| | | | |

| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 5 |
| Cat 289C Skid Steer | " | 1 | 4 |
| Hitachi EDX120 Track Hoe | " | 1 | 0 |
| Caterpillar 304E Track Hoe | " | 2 | 0 |
| Caterpillar 308 Track Hoe | " | 1 | 0 |
| 7000 Watt generator | " | 1 | 0 |
| Bucket truck | Advance Tree Service | 2 | 0 |
| Skid Steer | " | 1 | 1 |
| Tree Chipper | " | 1 | 0 |
| Stump Grinder | " | 1 | 4 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
|---|---|---|---|---|---|---|
| 1" ø HDPE pipe | X | | | | | |
| 1" ø Couplings | X | | | | | |
| Pipe insulation | X | | | | | |
| Heat trace | X | | | | | |
| Tye wraps / electrical tape | X | | | | | |
| | X | | | | | |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

**Visitors to Site**

| Name | Representing | Entered Exclusion/CRZ Zone | |
|---|---|---|---|
| Dave Chiusano | NYS D.E.C. | **Yes X** | **No** |
| Kris Keenan | NYS D.E.C. | **Yes X** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |

**Project Schedule Comments**

**Issues Pending**

**Interaction with Public, Property Owners, Media, etc.**

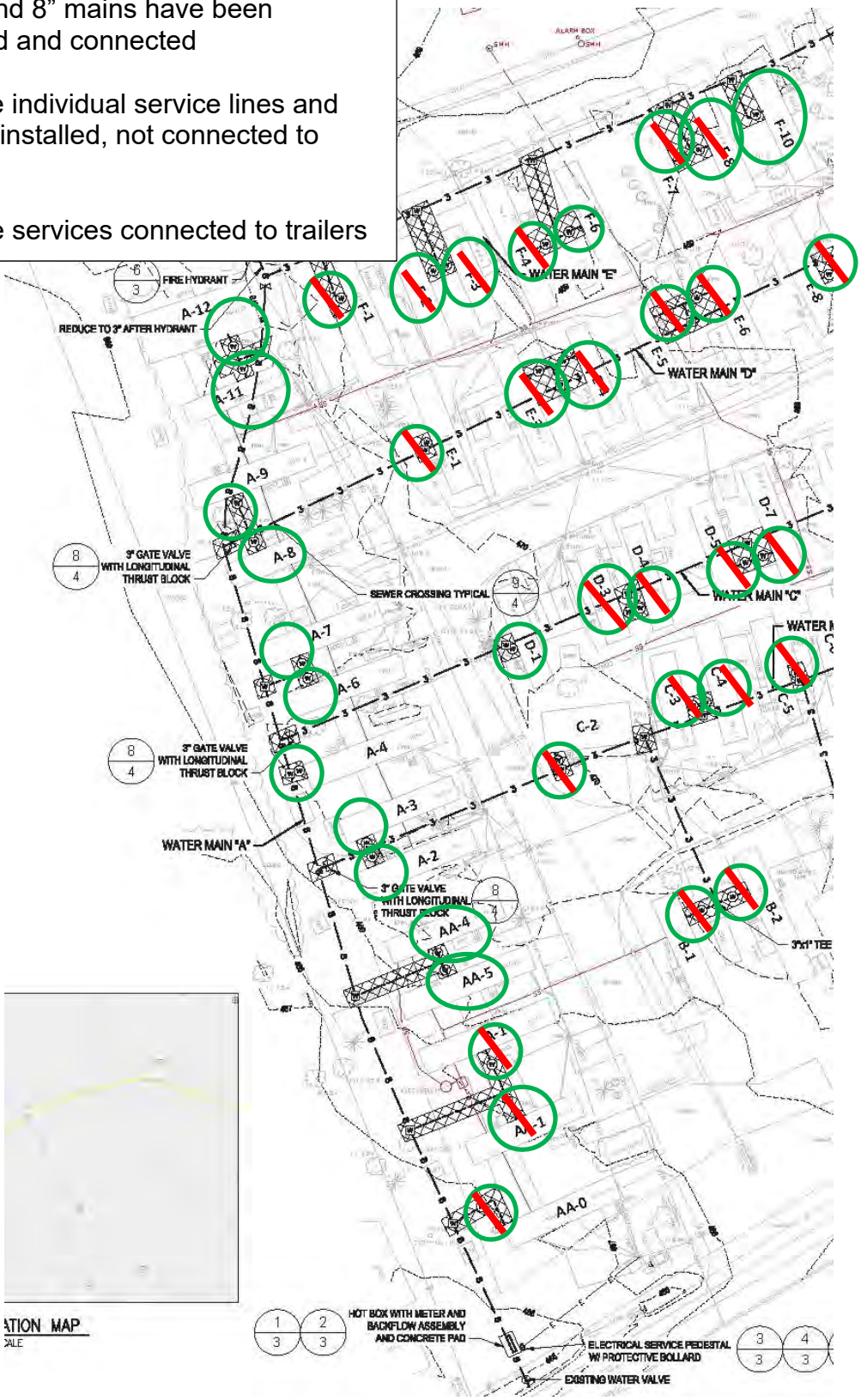
Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating traffic and parking with contractor activities.

GES continued to provide 24 hour notices of water interruptions for final connections today, and all residents have been notified.

All 3" and 8" mains have been installed and connected

Indicate individual service lines and meters installed, not connected to trailers

Indicate services connected to trailers




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
CURB STOP AN METER ONLY
3"x1" TEE
F-15
F-14
F-13
F-12
F-10
F-8
E-15
E-1A
E-13
E-10
E-9
E-8
E-6
D-15
D-1A
D-13
D-11
D-9
D-8
D-7
D-5
C-15
C-1A
C-13
C-12
C-11
C-10
C-9
C-8
C-6
C-5
C-4
B-2

| | |
|---|---|
|  |   |
| 'Hot Box' concrete foundation and meter/back flow preventer assembly. | Cover over new concrete at Meter Assembly / Backflow Preventer. |
|  |  |
| New 1" HDPE service, through pail with 1" ball valve shutoff. | New service pipe, electrical heat trace, and insulation up to underside of Mobile Home. |
|   |  |
| Pipe insulation. | 1" HDPE service pipe and fiberglass insulation for inside of pail w/ ball valve. |

| **Comments** | |
|---|---|
| 66 of 69 services: (Includes 3 @ Apartment House w/out M.P.'s) All meter pits/services are installed to Mobile Homes/Apartment.<br><br>50 of 69 connections have been made. Today thirty Mobile Homes have been connected to the municipal water supply. They are MH F-1, MH E-1, MH D-1, MH E-15, MH E-14, MH E-10, MH D-14, MH F-2, MH F-3, MH D-15, MH D-11, MH D-13, MH D-9, MH D-8, MH D-7, MH D-5, MH AA-0, MH AA-1, MH AA-3, MH E-11, MH E-13, MH E-9, MH E-8, MH E-6, MH E-5, MH E-4, MHE-3, MH F-4, MH F-7, and MH F-8. | |
| **Site Inspector(s):** Steven Van Arnam | **Date: 10/30/2019** |

# DAILY INSPECTION REPORT

Report No. 029 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 10/31/2019

| | | |
|---|---|---|
| NYSDEC<br>Division of<br>Environmental Remediation | **EA Engineering, P.C.**<br>269 W Jefferson St<br>Syracuse, New York 13202 | **NYSDEC Contract No. D011354**<br>NCC Superintendent: Jeff Proulx<br>NYSDEC PM: David Chiusano<br>GES PM: Scott McDonald<br>EA PM: Megan Miller<br>EA Site Inspector: Steve Van Arnam |

**Site Location:** Volney, New York

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Cloudy | AM | Rain- heavy | PM |
| **Temperature** | 57° *f* | AM | 61° *f* | PM |
| **Wind Direction** | Calm | AM | Calm | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, NCC reviewed concrete placement, HDPE service pipe handling and connections. Advanced Tree Service is grinding tree stump by Home D-11 today, reviewed PPE. All signed onto the HASP sign in sheet.

| **Summary of Work Performed** | Arrived at site: | 7:00 AM | Departed Site: | 4:30 PM |
|---|---|---|---|---|

GES and Subcontractor NCC are on site today. NCC has nine workers on site, three Foremen, three 'B' Operators, two Laborers, and 1 Technician. They are Tanner Sullivan, Tim Zubrzycki, Terry Souva, Todd Sullivan, Ken Burns, Cody Zubrzycki, Jirah Palmer, Tony Zubrzycki, and Marty Jones. NCC is making final connections beneath the remaining Mobile Homes in the Park, all are along Rows 'A' and 'E'. They are continuing to install 1" HDPE, heat trace, and pipe insulation. One crew is on Row 'E', connecting Mobile Homes from front to back. Other crew is on Row 'A' working from NYS Route #3 towards the back of the Park. One trailer had no electric, and two were noted to be leaking sanitary, homeowners and Park Owner were both notified. Crews continued doing final Mobile Home connections into the afternoon, completing 17 units and all connections. Tanner Sullivan reviewed two issues regarding low pressure. The units in questions are MH C-1 and MH C-8. He checked the meter assembly and PRV, no blockages noted. PRV's were adjusted to increase pressure from the factory setting. Other issues noted today at the Mobile Homes included leaking water and/or lack of power for heat trace. Park Owner Todd Redhead was notified as well as residents of each unit. Crew ended work for the day at 3:15 PM. GES Onsite Representative Chad Hill is continuing to coordinate with Park residents of crew activities. NCC completed connections at all remaining Mobile Homes today, they were- MH AA-4, MH AA-5, MH A-2, MH A-3, MH A-4, MH A-6, MH A-7, MH A-8, MH A-9, MH A-11, MH A-12, MH F-6, MH F-10, MH F-12, MH F-13, MH E-14, and MH F-15. All crews were off site for the day by 4:30 PM.

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 9 |
| Tanner Sullivan | North Country Contracting | Foreman | 9 |
| Todd Zubrzycki | NCC | Foreman / Technician | 9 |
| Ken Burns | NCC | Laborer | 9 |
| Jirah Palmer | NCC | B Operator | 9 |
| Marty Jones | NCC | B Operator | 9 |
| Tony Zubrzycki | NCC | B Operator | 9 |
| Cody Zubrzycki | NCC | Laborer | 9 |
| Terry Souva | NCC | Foreman | 8 |
| | | | |
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| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 5 |
| Cat 289C Skid Steer | " | 1 | 4 |
| Hitachi EDX120 Track Hoe | " | 1 | 0 |
| Caterpillar 304E Track Hoe | " | 2 | 0 |
| Caterpillar 308 Track Hoe | " | 1 | 0 |
| 7000 Watt generator | " | 1 | 0 |
| Tandem Dump | " | 1 | 1 |
| Bucket truck | Advance Tree Service | 1 | 0 |
| Skid Steer | " | 1 | 0 |
| Tree Chipper | " | 1 | 0 |
| Stump Grinder | " | 1 | 0 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
|---|---|---|---|---|---|---|
| 1" ø HDPE pipe | X | | | | | |
| 1" ø Couplings | X | | | | | |
| Pipe insulation | X | | | | | |
| Heat trace | X | | | | | |
| Tie wraps / electrical tape | X | | | | | |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

Removed topsoil previously stockpiled on site.

**Visitors to Site**

| Name | Representing | Entered Exclusion/CRZ Zone | |
|---|---|---|---|
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |

**Project Schedule Comments**

**Issues Pending**

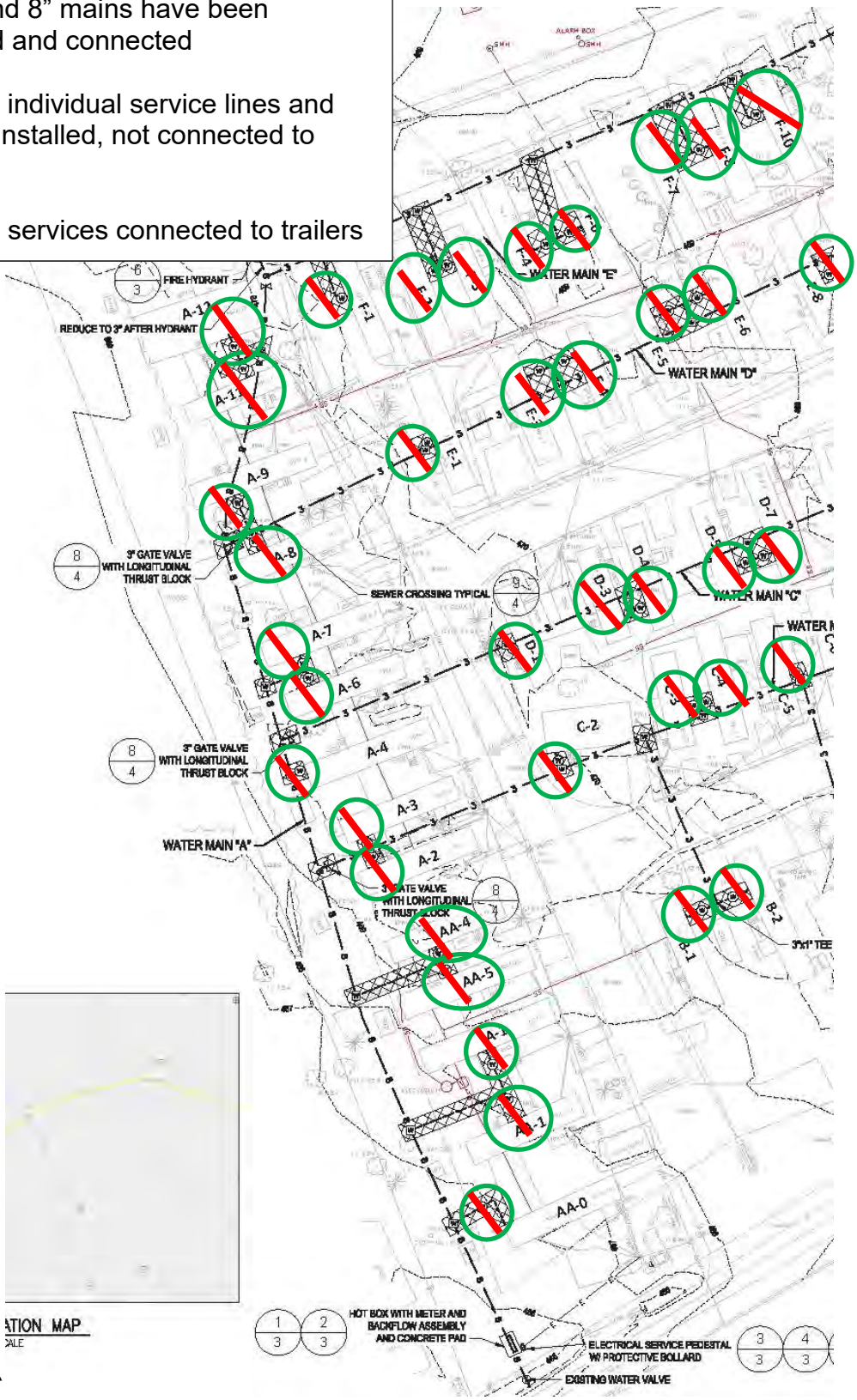
**Interaction with Public, Property Owners, Media, etc.**

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating contractor activities. All notices were provided.

All 3" and 8" mains have been installed and connected

Indicate individual service lines and meters installed, not connected to trailers

Indicate services connected to trailers




10' MIN. DISTANCE BETWEEN SANITARY SEWER AND MAIN
WATER MAIN "G"
WATER MAIN "D"
WATER MAIN "C"
WATER MAIN "B"
FLUSH HYDRANT
CURB STOP AN METER ONLY
3"x1" TEE
CASING

| | |
|---|---|
|  |  |
| Completing final connections along end of Row 'A' of Mobile Homes. | Removing stockpile of topsoil, in heavy rain. |
|  |  |
| New 1" HDPE service with insulation and heat trace being installed. | New hydrant on Water Line 'A' has been turned to face the roadway. |
|  |  |

| | |
|---|---|
| Crew finishing up for the day. | Materials at Mobile Home F-15 as crew finalizes connection. |

**Comments**

66 of 69 services: (Includes 3 @ Apartment House w/out M.P.'s) All meter pits/services are installed to Mobile Homes/Apartment.

67 of 69 connections have been made. Today the remaining Mobile Homes have been connected to the municipal water supply. They are MH AA-4, MH AA-5, MH A-2, MH A-3, MH A-4, MH A-6, MH A-7, MH A-8, MH A-9, MH A-11, MH A-12, MH F-6, MH F-10, MH F-12, MH F-13, MH E-14, and MH F-15. Two additional services were run for future use by Park-The maintenance shop(s) and existing Water Treatment Bldg. lot. They are not currently in service.

| | |
|---|---|
| **Site Inspector(s):** Steven Van Arnam | **Date: 10/31/2019** |

# DAILY INSPECTION REPORT

Report No. 030 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 11/01/2019

| | | |
|---|---|---|
| NYSDEC<br>Division of<br>Environmental Remediation | **EA Engineering, P.C.**<br>269 W Jefferson St<br>Syracuse, New York 13202 | **NYSDEC Contract No. D011354**<br>NCC Superintendent: Jeff Proulx<br>NYSDEC PM: David Chiusano<br>GES PM: Scott McDonald<br>EA PM: Megan Miller<br>EA Site Inspector: Steve Van Arnam |

**Site Location:** Volney, New York

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Cloudy, rain | AM | Cloudy, windy | PM |
| **Temperature** | 41° *f* | AM | 44° *f* | PM |
| **Wind Direction** | WSW, 15-20 MPH | AM | WSW, 15-20 MPH | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, NCC & Kahrs Electric reviewed concrete anchor bolt installation and hot box connections. Advanced Tree Service not on site. All signed onto the HASP sign in sheet.

| **Summary of Work Performed** | Arrived at site: | 7:00 AM | Departed Site: | 3:30 PM |
|---|---|---|---|---|

GES and Subcontractor NCC are on site today. NCC has six workers on site, three Foremen, two 'B' Operators, and one Laborer. They are Tanner Sullivan, Tim Zubrzycki, Todd Sullivan, Ken Burns, Jirah Palmer, Marty Jones, and Mike Kahrs, owner of Kahrs Electric. NCC is cleaning up the yard, spoil piles, building 'Hot Box' enclosure, and Kahrs Electric is doing power. They removed concrete forms, insulated concrete slab, and backfilled. Crew assembled 'Hot Box' structure over the metering / backflow preventer assembly and secured it to the concrete slab in heavy winds today. Park Owner Todd Redhead notified me via email to say the following units with deficiencies noted when making final connections beneath the Homes have been repaired: C16, C8, B1, D15, E9, and F1. The following will be reviewed/resolved today: E11, F6, and A3. Tanner Sullivan reviewed two issues regarding low water pressure, and they appear to be resolved now, but Chad Hill received three more before days end, NCC will review on Monday 11/4. Crew ended work for the day at 3:15 PM. GES Onsite Representative Chad Hill, NCC, and Kahrs Electric all off site by 3:30 PM.

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 8 |
| Tanner Sullivan | North Country Contracting | Foreman | 8 |
| Todd Zubrzycki | NCC | Foreman / Technician | 8 |
| Ken Burns | NCC | Laborer | 8 |
| Jirah Palmer | NCC | B Operator | 8 |
| Marty Jones | NCC | B Operator | 8 |
| Mike Kahrs | Kahr's Electric | Owner | 8 |
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| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 8 |
| Hitachi EDX120 Track Hoe | " | 1 | 4 |
| 7000 Watt generator | " | 1 | 0 |
| Tandem Dump | " | 1 | 1 |
| Bucket truck | Advance Tree Service | 1 | 0 |
| Skid Steer | " | 1 | 0 |
| Tree Chipper | " | 1 | 0 |
| Stump Grinder | " | 1 | 0 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
|---|---|---|---|---|---|---|
| 'Hot Box' Enclosure | X | | | | | |
| 2" insulation board | X | | | | | |
| Anchor bolts and hardware | X | | | | | |
| New electric wiring | X | | | | | |
| Tie wraps / electrical tape | X | | | | | |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

Removed previously stockpiled Item #4, topsoil, and #2 Stone on site.

**Visitors to Site**

| Name | Representing | Entered Exclusion/CRZ Zone | |
|---|---|---|---|
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |

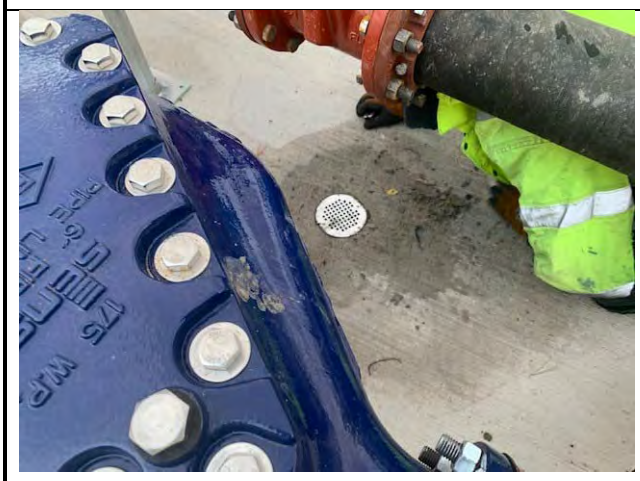
**Project Schedule Comments**

Restoration of site to be completed in the spring, Contractors, GES / NCC to proceed with soil sampling requirements for topsoil.

**Issues Pending**

**Interaction with Public, Property Owners, Media, etc.**

Miscellaneous interaction with residents, answering questions, guiding pedestrian traffic when necessary and coordinating contractor activities. All notices were provided.

| | |
|---|---|
|  |  |
| Crew trucks at meter assembly location. | Tandem truck removing stockpile of topsoil, all materials removed now. |
|  |  |
| Caterpillar 420it backhoe loaded topsoil for transport back off site. | Removing materials, construction supplies from meter assembly site. |
|  |  |
| Floor drain in 'Hot Box', located under metering assembly. | New 'Hot Box' structure in place, electric done, heat is now working. |

| **Comments** | |
|---|---|
| 67 of 69 services and public water supply connections are completed. This includes 3 meters in the basement @ the apartment house, and the balance of meter pits/services to Mobile Homes.<br><br>Park Owner / Resident have made require repairs to the following Mobile Homes with deficiencies noted during public water service connection: C16, C8, B1, D15, E9, and F1.<br><br>E11, F6, and A3 will be looked at November 1, 2019. | |
| **Site Inspector(s):** Steven Van Arnam | **Date: 11/01/2019** |

# DAILY INSPECTION REPORT

Report No. 031 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 11/04/2019

| | | |
|---|---|---|
| NYSDEC<br>Division of<br>Environmental Remediation | **EA Engineering, P.C.**<br>269 W Jefferson St<br>Syracuse, New York 13202 | **NYSDEC Contract No. D011354**<br>NCC Superintendent: Jeff Proulx<br>NYSDEC PM: David Chiusano<br>GES PM: Scott McDonald<br>EA PM: Megan Miller<br>EA Site Inspector: Steve Van Arnam |

**Site Location:** Volney, New York

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Clouds & sun | AM | Cloudy | PM |
| **Temperature** | 38° *f* | AM | 47° *f* | PM |
| **Wind Direction** | W, < 5 MPH | AM | W, < 5 MPH | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, Tanner Sullivan from NCC and Mike Khars, from sub-contractor Khars Electric signed in.

| **Summary of Work Performed** | Arrived at site: | 7:00 AM | Departed Site: | 3:30 PM |
|---|---|---|---|---|

GES and Subcontractors NCC and Mike Khars, Khars Electric were on site today. NCC has one worker on site, Tanner Sullivan, and Mike Kahrs, owner of Kahrs Electric. NCC is cleaning up the yard, spoil piles, and marking all meter pits and curb stops. Their subcontractor is working on the meter enclosure. Kahrs Electric is installing the second heater today. He completed this work before leaving for the day at 2:30 PM. Tanner Sullivan reviewed two additional issues regarding low water pressure that were noted Friday, and they appear to be resolved now. Tanner Sullivan and Chad Hill received additional low water pressure comments and NCC review all issues today. Chad Hill from GES has gone door to door to inquire about any issues on site with individual residents, any additional items were addressed today. Tanner Sullivan assisted Khars Electric with electric at 'Hot Box' prior to leaving for the day to return a tool trailer to their home Office. All workers ended work for the day by 3:15 PM. GES Onsite Representative Chad Hill, NCC, and Kahrs Electric all off site by 3:30 PM.

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 8 |
| Tanner Sullivan | North Country Contracting | Foreman | 8 |
| Mike Khars | Khars Electric | Owner | 4 |
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| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 2 |
| Hitachi EDX120 Track Hoe | " | 1 | 0 |
| Caterpillar 304 Track Hoe | " | 1 | 0 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
|---|---|---|---|---|---|---|
| 'Hot Box' Enclosure wiring | X | | | | | |
| Marking paint & wood stakes for M.P. | X | | | | | |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

**Visitors to Site**

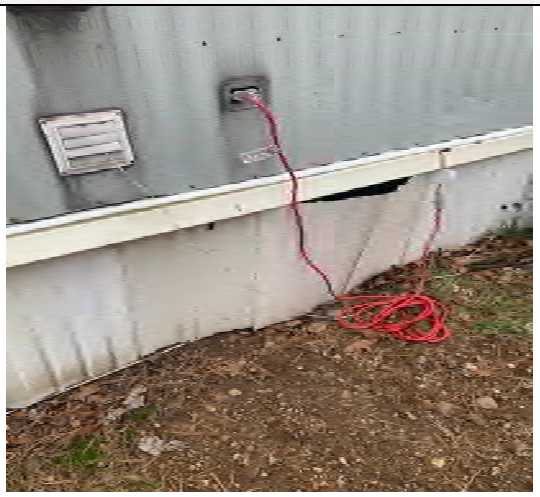
| Name | Representing | Entered Exclusion/CRZ Zone | |
|---|---|---|---|
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |
| | | **Yes** | **No** |

**Project Schedule Comments**

**Issues Pending**

**Interaction with Public, Property Owners, Media, etc.**

Miscellaneous interaction with residents, checking new water pressures in individual Mobile Homes, and answering questions.

| | |
|---|---|
|  |  |
| Contractor marking meter pits and curb stops for winter. | Electrical extension cords provided at Mobile Home for heat trace power. |
|  |  |
| Stone driveway restoration. | Edge of roadway with stones / blocks marking margin by Homeowner. |
| Interior  |  |
| Interior of 'Hot Box' meter / backflow preventer. | Heater installed in 'Hot Box' enclosure. |

| **Comments** | |
|---|---|
| Walk thru of the site with Park Owner is tomorrow at 9:00 AM. | |
| **Site Inspector(s):** Steven Van Arnam | **Date: 11/04/2019** |

# DAILY INSPECTION REPORT



Report No. 032 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 11/05/2019

| | | |
|---|---|---|
| NYSDEC Division of Environmental Remediation | **EA Engineering, P.C.**<br>269 W Jefferson St<br>Syracuse, New York 13202 | **NYSDEC Contract No. D011354**<br>NCC Superintendent: Jeff Proulx<br>NYSDEC PM: David Chiusano<br>GES PM: Scott McDonald<br>EA PM: Megan Miller<br>EA Site Inspector: Steve Van Arnam |

**Site Location:** Volney, New York

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Clouds & rain | AM | Clouds, rain- off / on | PM |
| **Temperature** | 44° *f* | AM | 47° *f* | PM |
| **Wind Direction** | West, 5 MPH | AM | West, 5 MPH | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, Tanner Sullivan from NCC signed in.

| **Summary of Work Performed** | Arrived at site: | 7:00 AM | Departed Site: | 3:30 PM |
|---|---|---|---|---|

GES and Subcontractors NCC on site today. NCC has one worker, Tanner Sullivan, and he is cleaning up the construction yard and attended site closeout meeting and walk thru at 10:30 AM. Todd Redhead, Crosby Hill MHP Owner, Chad Hill, Project Representative w/ GES, and Steven Van Arnam w/ EA Engineering conducted meeting and a full walk thru of all areas impacted by installation of the new HDPE mainline pipes, HDPE services, and new meter pits. Compiled list of items to be completed, the list reflects items for this fall and items for the spring of 2020. Tanner Sullivan reviewed function of the individual meter pits, discussed issues regarding low water pressure and how to adjust PRV's in the meter pits. Tanner Sullivan and Chad Hill have not received any new low water pressure comments. Tanner Sullivan left site at 1:30 PM to remove some equipment and will return tomorrow to complete items discussed today. The Contractor has ordered bollards for the hydrant and meter enclosure and will be installing them later this week. All work and demobilization will be completed this week. All Onsite Representatives were off site by 3:30 PM.

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 8 |
| Tanner Sullivan | North Country Contracting | Foreman | 8 |
| Mike Khars | Khars Electric | Owner | 4 |
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| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 2 |
| Hitachi EDX120 Track Hoe | " | 1 | 0 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

**Visitors to Site**

| Name | Representing | Entered Exclusion/CRZ Zone | |
|---|---|---|---|
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |

**Project Schedule Comments**

**Issues Pending**

**Interaction with Public, Property Owners, Media, etc.**

| **Comments** | |
|---|---|
| Compiled list of “Items to be Completed” during walk thru of the Mobile Home Park site with Park Owner Todd Redhead. | |
| **Site Inspector(s):** Steven Van Arnam | **Date: 11/05/2019** |

# DAILY INSPECTION REPORT



Report No. 033 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 11/06/2019

| | | |
|---|---|---|
| NYSDEC<br>Division of<br>Environmental Remediation | **EA Engineering, P.C.**<br>269 W Jefferson St<br>Syracuse, New York 13202 | **NYSDEC Contract No. D011354**<br>NCC Superintendent: Jeff Proulx<br>NYSDEC PM: David Chiusano<br>GES PM: Scott McDonald<br>EA PM: Megan Miller<br>EA Site Inspector: Steve Van Arnam |

**Site Location:** Volney, New York

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Mostly cloudy | AM | Mostly cloudy | PM |
| **Temperature** | 42° *f* | AM | 50° *f* | PM |
| **Wind Direction** | Calm | AM | Calm | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, Tanner Sullivan from NCC signed in.

| **Summary of Work Performed** | Arrived at site: | 7:00 AM | Departed Site: | 3:30 PM |
|---|---|---|---|---|

GES and Subcontractors NCC on site today. NCC has one worker, Tanner Sullivan, and he is cleaning up the construction yard, installing electrical outlet at the 4"x4" post at the Meter Assembly / Backflow Preventor 'Hot Box' enclosure, and they procured backup Gould effluent pump model WS0511 B which was damaged by NCC during construction. In the afternoon NCC moved the above ground 275 gallon fuel tank at Mobile Home A-9, this tank is empty, turn off, and secured, it was moved during construction to allow for installation of the new meter pit and service line. he also provided two boulders for blow-off hydrant protection at the end of Row 'B' and installed temporary mulch around metering enclosure. Contractor received bollards for the hydrant and meter enclosure and will be installing them tomorrow. All Onsite Representatives were off site by 3:30 PM.

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 8 |
| Tanner Sullivan | North Country Contracting | Foreman | 8 |
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| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 2 |
| Hitachi EDX120 Track Hoe | " | 1 | 0 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

**Visitors to Site**

| Name | Representing | Entered Exclusion/CRZ Zone | |
|---|---|---|---|
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |

**Project Schedule Comments**

**Issues Pending**

**Interaction with Public, Property Owners, Media, etc.**

| | |
|---|---|
|  |  |
| Added two large boulders at blow-off hydrant and water valves on end of Row 'B' for protection. | Relocated 275 gallon fuel tank, currently not in service. |
|  |  |
| New Gould effluent pump delivered by NCC to Mobile Home Park. Replacement for damaged one. | Power outlet added at Metering Assembly 'Hot Box'. |
|  |  |
| GFCI Outlet added at 4"x4" post w/ electric at the metering assembly 'Hot Box'. | Temporary mulch provided at disturbed excavated area around metering assembly 'Hot Box'. |

**Comments**

Update of completed items from the list of "Items to be Completed" compiled during walk thru 11/05:
Items to be Completed- Autumn 2019: (Walk thru held 11/5/2019)

1. ~~Provide additional PRV's for meter pits- 4 required.~~ Completed 11/4/2019
2. Provide plugs in cast iron meter pit covers.
3. ~~Adjust individual meter pit PRV's as required following of canvas of all residents' water pressure.~~ Completed 11/4/2019
4. Provide Buried Watermain Below "stickers" on Rhino trace wire markers.
5. Provide bollards at hydrant assembly and 'Hot Box' enclosure per drawings.
6. ~~Relocate tank at Mobile Home A-9 which had previously been moved during service installation.~~ Completed 11/6/2019
7. ~~Provide two boulders excavated during construction to 'blow-off' hydrant location for protection.~~ Completed 11/6/2019
8. ~~Provide electrical outlet on 'Hot Box' electrical riser per drawings.~~ Completed 11/6/2019
9. ~~Provide SWPPP mulch at area around meter assembly / backflow preventer structure.~~ Completed 11/6/2019
10. ~~NCC to purchase new Gould WS0511 B, 120 V, sewage effluent pump to Park Owner as replacement for damaged unit.~~ Completed 11/6/2019
11. Provide anchor bolts on pipe supports in 'Hot Box'.
12. ~~Installation of new seepage pits~~. Per GES- to be performed "By Others".

| **Site Inspector(s):** Steven Van Arnam | **Date: 11/06/2019** |
|---|---|

# DAILY INSPECTION REPORT



Report No. 034 **Crosby Mobile Home Park - NYSDEC Site No. 1805786** Date: 11/07/2019

| NYSDEC Division of Environmental Remediation | **EA Engineering, P.C.** 269 W Jefferson St Syracuse, New York 13202 | **NYSDEC Contract No. D011354** |
|---|---|---|
| | | NCC Superintendent: Jeff Proulx |
| **Site Location:** Volney, New York | | NYSDEC PM: David Chiusano |
| | | GES PM: Scott McDonald |
| | | EA PM: Megan Miller |
| | | EA Site Inspector: Steve Van Arnam |

**Weather Conditions**

| | | | | |
|---|---|---|---|---|
| **General Description** | Clouds, rain | AM | Clouds, rain | PM |
| **Temperature** | 39° *f* | AM | 42° *f* | PM |
| **Wind Direction** | NW, 5-10 MPH | AM | NW, 5-10 MPH | PM |

**Health & Safety**
**If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**

| | | | |
|---|---|---|---|
| Were there any changes to the Health & Safety Plan? | *Yes | No X | NA |
| Were there any exceedances of the perimeter air monitoring reported on this date? | *Yes | No | NA X |
| Were there any nuisance issues reported/observed on this date? | *Yes | No | NA X |

**Health & Safety Comments**

GES Reviewed standard health & safety plan, Tanner Sullivan and Marty Jones from NCC signed in.

| **Summary of Work Performed** | Arrived at site: | 7:00 AM | Departed Site: | 3:30 PM |
|---|---|---|---|---|

GES and Subcontractors NCC on site today. NCC has Foreman and Operator on site today, they are Tanner Sullivan and Marty Jones. First thing this morning they excavated with Cat 420 Backhoe to install new bollard in front of electrical riser at the 4"x4" post with electrical service for the Meter Assembly / Backflow Preventor 'Hot Box' enclosure. Once completed there they moved to the Hydrant Assembly on the end of water line 'A' to install two new bollards there. They completed installing bollards by 10:00 AM. One Foreman installed anchor bolts on pipe supports in the meter assembly enclosure and re-applied temporary mulch at excavation for new bollard by 'Hot Box' enclosure. The rest of the day the two workers visually inspected the interior of every meter pit on site and installed plugs in meter knockouts in the lids of the meter pits with epoxy, except Mobile Homes E-1 and F-2. NCC Foreman trying to locate two additional plugs. They completed this work by 3:15 pm, and all Onsite Representatives and workers were off site by 3:30 PM.

The installation of stickers on the tracer wire markers and "safety yellow" paint or HDPE covers on new bollards will be added to the spring 2020 list of "Items to be Completed".

**Equipment/Material Tracking**
**If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**

| | | | |
|---|---|---|---|
| Were there any vehicles which did not display proper D.O.T numbers and placards? | *Yes | No X | NA |
| Were there any vehicles which were not lined or tarped? | * Yes | No | NA X |
| Were there any vehicles which were not decontaminated prior to exiting the work site? | * Yes | No | NA X |

**Personnel and Equipment**

| Individual | Company | Trade | Total Hours |
|---|---|---|---|
| Chad Hill | GES | Project Superintendent | 8 |
| Tanner Sullivan | North Country Contracting | Foreman | 8 |
| Marty Jones | NCC | Operator | 8 |
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| Equipment Description | Contractor/Vendor | Quantity | Total Hours Used |
|---|---|---|---|
| Caterpillar 420it rubber tire backhoe | North Country Contracting | 1 | 2 |
| Hitachi EDX120 Track Hoe | " | 1 | 0 |
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| Material Description | Site | Exported off Site | Waste Profile (If Applicable) | Source or Disposal Facility (If Applicable) | Daily Loads | Daily Weight (tons)* |
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*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:**

**Visitors to Site**

| Name | Representing | Entered Exclusion/CRZ Zone | |
|---|---|---|---|
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |
| | | Yes | No |

**Project Schedule Comments**

**Issues Pending**

**Interaction with Public, Property Owners, Media, etc.**



Bollard @ meter assembly enclosure electrical riser. (Bollards need safety yellow covers)



Installing bollards at hydrant assembly.



Installing new bollards at hydrant on 'A' Line.



New bollards at hydrant assembly, need safety yellow covers.



New cast plug in cast iron meter pit covers.



Bollards at Hydrant Assembly installed at end of waterline 'A', requires safety yellow paint or cover.

**Comments**

Update of completed items from the list of "Items to be Completed" compiled during walk thru 11/05:
Items to be Completed- Autumn 2019: (Revised 11/7/2019)

1. ~~Provide additional PRV's for meter pits- 4 required.~~ Completed 11/4/2019
2. ~~Provide plugs in cast iron meter pit covers.~~ All completed 11/7/2019, EXCEPT MH E-1 and MH F-2.
3. ~~Adjust individual meter pit PRV's as required following of canvas of all residents' water pressure.~~ Completed 11/4/2019
4. Provide Buried Watermain Below "stickers" on Rhino tracer wire markers. (Weather too cold & wet, do spring 2020)
5. ~~Provide bollards at hydrant assembly and 'Hot Box' enclosure per drawings.~~ Bollards installed 11/7/2019, provide "Safety Yellow" paint or HDPE covers in Spring 2020.
6. ~~Relocate tank at Mobile Home A-9 which had previously been moved during service installation.~~ Completed 11/6/2019
7. ~~Provide two boulders excavated during construction to 'blow-off' hydrant location for protection.~~ Completed 11/6/2019
8. ~~Provide electrical outlet on 'Hot Box' electrical riser per drawings.~~ Completed 11/6/2019
9. ~~Provide SWPPP mulch at area around meter assembly / backflow preventer structure.~~ Completed 11/6/2019
10. ~~NCC to purchase new Gould WS0511 B, 120 V, sewage effluent pump to Park Owner as replacement for damaged unit.~~ Completed 11/6/2019
11. ~~Provide anchor bolts on pipe supports in 'Hot Box'.~~ Completed 11/7/2019
12. ~~Installation of new seepage pits~~. Per GES- to be performed "By Others".

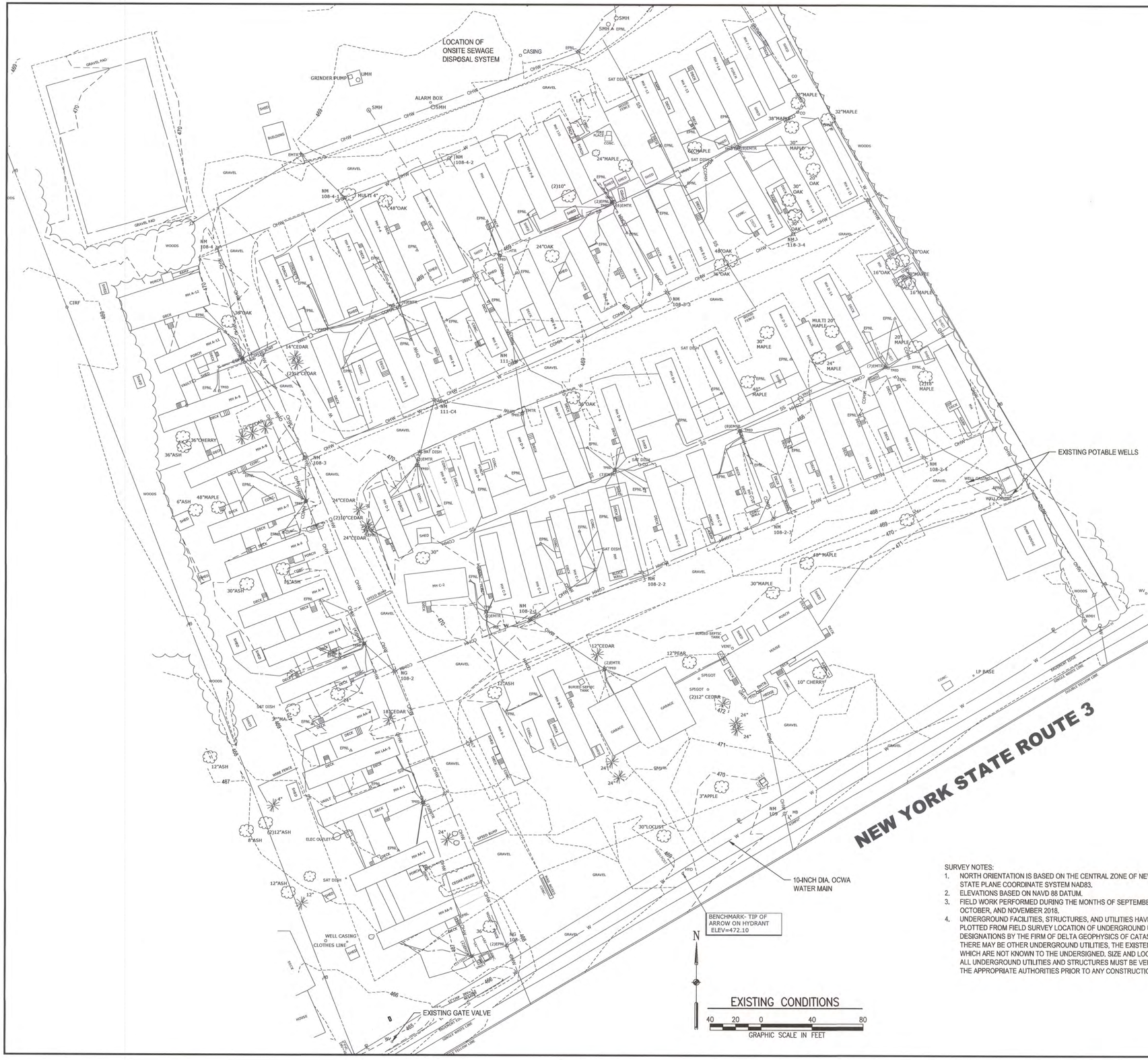
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|---|---|
| **Site Inspector(s):** Steven Van Arnam | **Date: 11/07/2019** |

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# Appendix B

# Design Drawings

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GENERAL LOCATION MAP
NOT TO SCALE

**PROJECT LOCATION:**
**CROSBY HILL MOBILE HOME PARK**
**2657 STATE ROUTE 3**
**VOLNEY, NY 13069**

**MUNICIPALITIES:**
**TOWN OF VOLNEY**
**OSWEGO COUNTY, NY**

**TAX PARCEL ID:**
**237.01-01-15.12**

**OWNER INFORMATION:**
**TODD REDHEAD**
**SILVER ROCK MOBILE HOME PARK**
**136 COUNTY ROUTE 57**
**PHOENIX, NY 13135**

**DESIGN ENGINEER**
**DONALD CONAN P.E.**
**EA ENGINEERING, P.C.**
**269 WEST JEFFERSON STREET**
**SYRACUSE, NEW YORK 13202**

LEGEND

| | |
|---|---|
| UP | UTILITY POLE UTILITY POLE W/LIGHT |
| EPNL | ELECTRIC PANEL |
| EMTR | ELECTRIC METER |
| LP | LIGHT POLE |
| | GUY WIRE |
| UMH | UNKNOWN MANHOLE |
| TPED | TELEPHONE PEDESTAL |
| GMTR | GAS METER |
| WMH | WATER MANHOLE |
| WV | WATER VALVE |
| HYD | HYDRANT |
| SMH | SANITARY MANHOLE |
| CO | CLEAN OUT |
| | SIGN |
| MB | MAILBOX |
| CIRF | CAPPED IRON ROD FOUND |
| MH B-1 | MOBILE HOME DESIGNATION |
| W | WATER LINE |
| OHW | OVERHEAD WIRES |
| ST | STORM DRAIN |
| | WOOD FENCE |
| | CHAIN LINK FENCE |
| UE | UNDERGROUND ELECTRIC LINE |
| COMM | UNDERGROUND COMMUNICATION LINE |
| UU | UNKNOWN ANOMALY LINE |
| SS | SANITARY SEWER LINE (DASHED WHERE INFERRED) |
| | PROPERTY FROM TAX MAP |
| | DECIDUOUS TREE |
| | CONIFEROUS TREE |
| 470 / 471 | EXISTING CONTOURS |

SURVEY NOTES:
1. NORTH ORIENTATION IS BASED ON THE CENTRAL ZONE OF NEW YORK STATE PLANE COORDINATE SYSTEM NAD83.
2. ELEVATIONS BASED ON NAVD 88 DATUM.
3. FIELD WORK PERFORMED DURING THE MONTHS OF SEPTEMBER, OCTOBER, AND NOVEMBER 2018.
4. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM FIELD SURVEY LOCATION OF UNDERGROUND UTILITY DESIGNATIONS BY THE FIRM OF DELTA GEOPHYSICS OF CATASAUQUA, PA. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN TO THE UNDERSIGNED. SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO ANY CONSTRUCTION.

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Department of Environmental Conservation
NEW YORK STATE OF OPPORTUNITY

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 1/7/18 | FOR REGULATORY REVIEW |

REVISIONS

EXISTING CONDITIONS

CROSBY HILL MOBILE HOME PARK
WATER DISTRIBUTION SYSTEM DESIGN
2657 STATE ROUTE 3
VOLNEY, OSWEGO COUNTY, NEW YORK

PREPARED BY:
EA ENGINEERING, P.C.
AND ITS AFFILIATE
EA SCIENCE AND
TECHNOLOGY

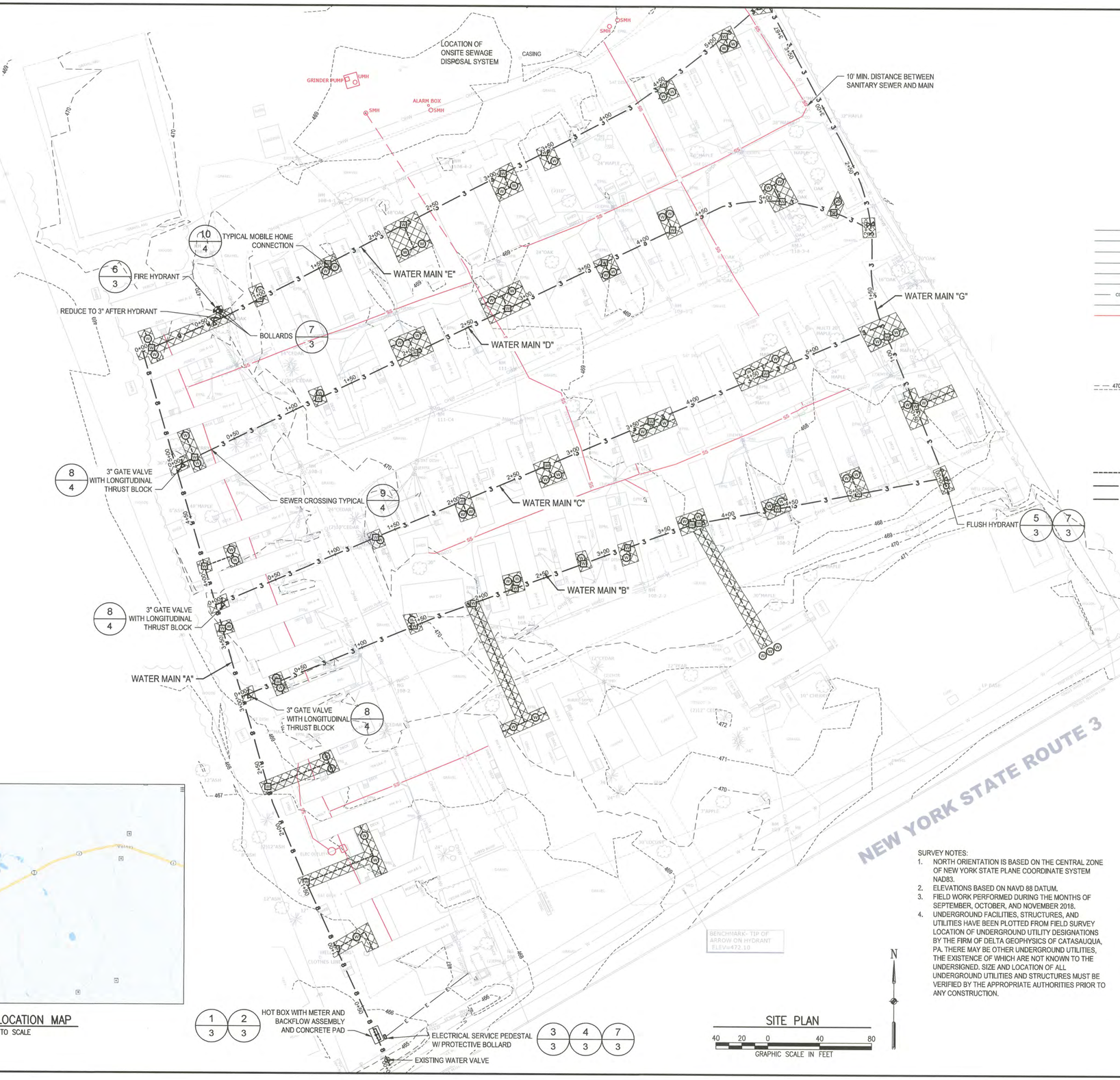
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| FILE | Crosby Hill Mobile Park.dwg |
| DRAWN BY | JRM |
| DATE | FEBRUARY 2019 |
| SCALE | AS SHOWN |

STATE OF NEW YORK
DONALD FRANCIS CONAN III
LICENSED PROFESSIONAL ENGINEER
75665

SHEET # 1




TYPICAL 8" X 3" CONNECTION







GENERAL LOCATION MAP
NOT TO SCALE

SITE PLAN
40 20 0 40 80
GRAPHIC SCALE IN FEET

N

LEGEND

| | |
|---|---|
| | UTILITY POLE UTILITY POLE W/LIGHT |
| EPNL | ELECTRIC PANEL |
| EMTR | ELECTRIC METER |
| LP | LIGHT POLE |
| | GUY WIRE |
| UMH | UNKNOWN MANHOLE |
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| | PROPERTY FROM TAX MAP |
| | DECIDUOUS TREE |
| | CONIFEROUS TREE |
| 470 471 | EXISTING CONTOURS |
| | PROPOSED FIRE HYDRANT |
| | PROPOSED YARD HYDRANT |
| W | PROPOSED WATER METER |
| M | PROPOSED 1" TAPPING SADDLE |
| | PROPOSED GATE VALVE WITH MJ ADAPTER |
| | PROPOSED 1" SERVICE |
| 3 3 | PROPOSED 3" HDPE WATER PIPE |
| 8 8 | PROPOSED 8" HDPE WATER PIPE |
| | PROPOSED EXCAVATION AREA |
| 0+00 | STATIONING ON MAINS |

DETAIL REFERENCE NUMBER — 1/3 — DRAWING ON WHICH DETAIL APPEARS
"-" INDICATES TYPICAL OR ON SAME DRAWING

NOTES:
1. MAIN WATER METER AND BACKFLOW PREVENTER ASSEMBLY TO BE HOUSED ABOVE GRADE IN A HUBELL HOT BOX ALUMINUM ENCLOSURE PRODUCT NO. HA087144085 (OR EQUIVALENT) WITH RODENT SCREENS AND FLAPPERS ON DRAIN PORTS.
2. CONTRACTOR SHALL USE MECHANICAL JOINTS BELOW GRADE AND FLANGED JOINTS ABOVE GRADE.
3. PIPE AND FITTINGS ARE TO BE 8" AND 6" DUCTILE IRON FROM EXISTING VALVE TO UNDER GROUND LATERAL LINE AFTER BACKFLOW PREVENTER.
4. 3" AND 8" MAINS TO BE DIRECTIONALLY DRILLED DR-II HDPE PIPE WITH TRACER WIRE, PER ASTM F1962-11. EXCAVATION LIMITS AS SHOWN.
5. ALL PIPE FITTINGS AND ADAPTERS SHALL BE FREE OF LEAD AND SHALL BE NSF61 CERTIFIED FOR POTABLE WATER WORK AND COMPATIBLE WITH OTHER COMPONENTS OF THE DISTRIBUTION SYSTEM.
6. CONTRACTOR TO IDENTIFY WATER SERVICE LOCATION AT EACH UNIT PRIOR TO INSTALLATION. LOCATIONS SHOWN ARE APPROXIMATE.
7. HOUSE ON PROPERTY ON STATE ROUTE 3 CONTAINS THREE UNITS THAT WILL EACH HAVE ITS OWN 3/4" METER AND WATER PRESSURE REDUCING VALVE IN THE BASEMENT OF THE STRUCTURE. CONTRACTOR TO DETERMINE WHERE 3" LINE REDUCES AND SPLITS TO 1" LINES.
8. PROPOSED WATER DISTRIBUTION SYSTEM SHALL NOT BE CONNECTED TO EXISTING PRODUCTION WELLS.
9. WATER MAINS SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.
10. PRESSURE TESTING AND DISINFECTION OF WATER DISTRIBUTION MAINS SHALL BE PERFORMED IN ACCORDANCE WITH AWWA STANDARDS C-901-17, C-906-15, AND C-651.
11. CONTRACTOR SHALL USE RESTRAINED (MECHANICAL) JOINTS ON ALL FITTINGS.
12. CONTRACTOR SHALL VERIFY STORM SEWER LOCATION AND DEPTH. PROVIDE PIPE PROFILES PRIOR TO DIRECTIONAL DRILLING.
13. EXISTING WATER LINES SHALL BE PROTECTED DURING EXCAVATION AND DRILLING ACTIVITIES. MOBILE HOME PARK TO REMAIN ON EXISTING WELL WATER UNTIL CONNECTED TO PROPOSED SYSTEM.
14. PRIOR TO PRESSURE TEST, MAINS SHALL BE INSTALLED FROM THE EXISTING 8" GATE VALVE UP TO THE CURB STOP AFTER EACH UNIT'S METER BOX. A 10-FT SACRIFICIAL PIPE SHALL BE CONNECTED TO THAT CURB STOP FOR USE DURING PRESSURE TEST AND DISINFECTION.
15. PRIOR TO CONNECTING THE LAST TRAILER TO THE PROPOSED SYSTEM, EXISTING PUMP SHALL BE TURNED OFF AND WELLS SHALL BE DISCONNECTED FROM THE EXISTING WATER DISTRIBUTION PIPE.

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Department of Environmental Conservation
NEW YORK STATE OF OPPORTUNITY

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | REVISIONS |

SITE PLAN

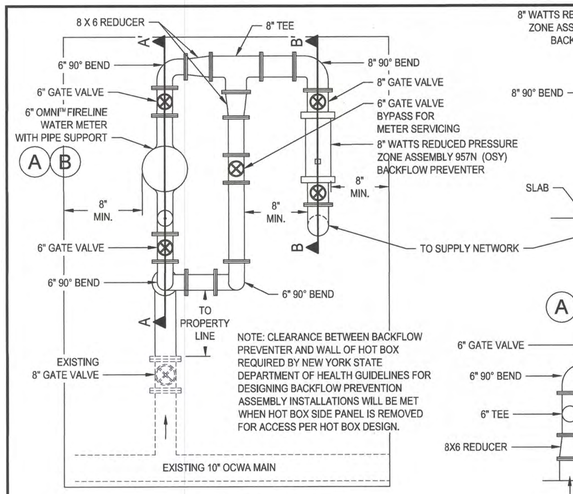
CROSBY HILL MOBILE HOME PARK
WATER DISTRIBUTION SYSTEM DESIGN
2857 STATE ROUTE 3
VOLNEY, OSWEGO COUNTY, NEW YORK

PREPARED BY:
EA ENGINEERING, P.C.
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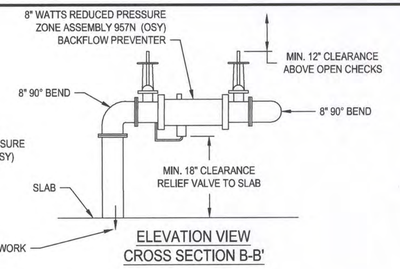
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| DRAWN BY | JRM |
| DATE | FEBRUARY 2019 |
| SCALE | AS SHOWN |

DONALD FRANCIS CONAN II
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW YORK
75669

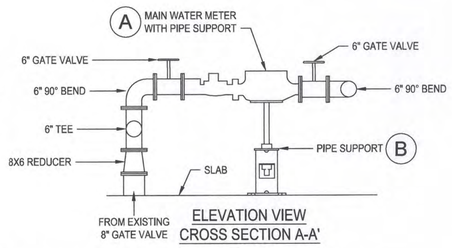
SHEET # 2




PLAN VIEW

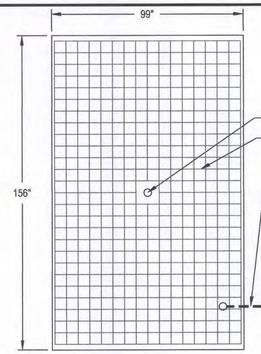



ELEVATION VIEW
CROSS SECTION B-B'

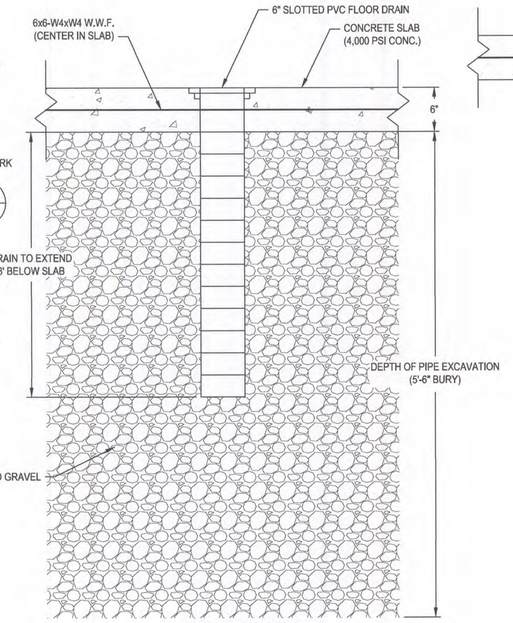



ELEVATION VIEW
CROSS SECTION A-A'

1/2 METER AND BACKFLOW ASSEMBLY DETAIL
NOT TO SCALE

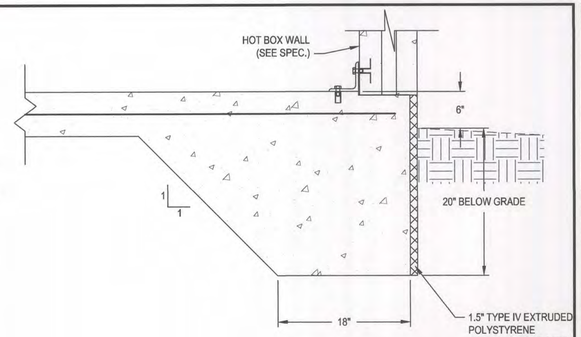



PLAN VIEW

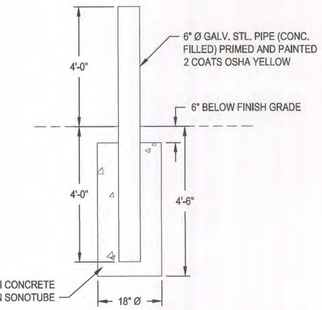



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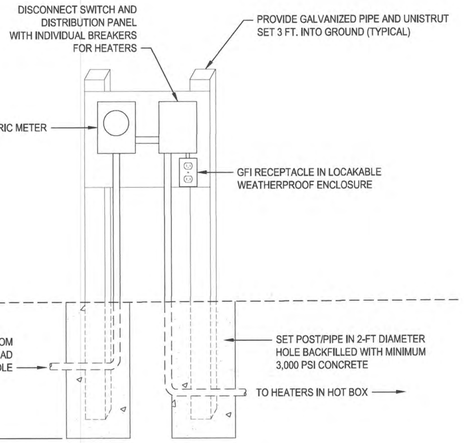
2/2 CONCRETE PAD DETAIL
NOT TO SCALE



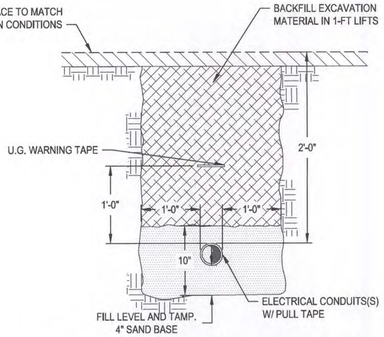

SHALLOW FROST PROTECTED FOUNDATION SECTION



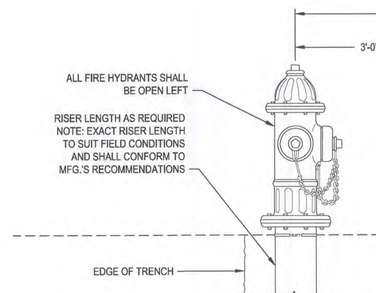

7/2 TYPICAL BOLLARD DETAIL
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3/2 ELECTRIC SERVICE PEDESTAL DETAIL
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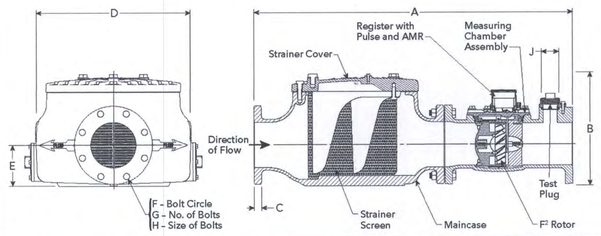



4/2 TYPICAL CONDUIT TRENCH DETAIL
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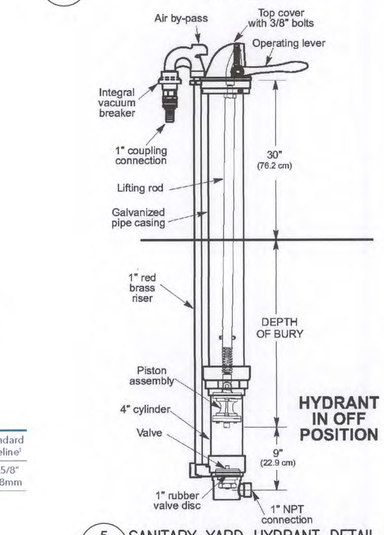

NOTES:
1. MAIN VALVE OPENING SHALL BE 5 ¼".
2. HYDRANT SHALL HAVE TWO 2 ½" HOSE NOZZLES WITH NATIONAL STANDARD THREAD (7 1/2 THREADS/INCH).
3. HYDRANT SHALL HAVE ONE 4 ½" STEAMER NOZZLE WITH NATIONAL STANDARD THREAD.
4. HYDRANT SHALL HAVE A 6" MECHANICAL JOINT INLET CONNECTION.
5. DEPTH OF BURY SHALL BE 5' 6" FROM BOTTOM OF PIPE TO GROUND LINE.
6. COLOR OF HYDRANT SHALL BE COORDINATED WITH THE VOLNEY FIRE DEPARTMENT.
7. THE EXTERIOR OF THE HYDRANTS, FROM THE GROUND LINE UP, SHALL BE PAINTED IN A TWO-COAT SYSTEM. THE FIRST COAT SHALL BE A PRIMER IN A COLOR OTHER THAN THE FINISHED COAT, SO THE PRIMER COAT CAN BE DISTINGUISHED. THE SECOND COAT FOR THE YELLOW PORTION OF THE HYDRANT SHALL BE OF RUSTOLEUM 3400 SYSTEM ENAMEL SAFETY YELLOW, OR EQUAL WHICH IS APPROVED IN WRITING BY OCWA. THE SECOND COAT FOR THE GREEN PORTION OF THE HYDRANT SHALL BE RUSTOLEUM 3400 SYSTEM ENAMEL FOREST GREEN, OR APPROVED EQUAL. THE BID PRICE SHALL INCLUDE 10 GALLONS OF FINAL YELLOW COAT AND 5 GALLONS OF FINAL GREEN COAT.
8. HOSE NOZZLES AND STEAMER NOZZLES SHALL BE EQUIPPED WITH GASKETS AND SAFETY CHAINS.
9. OPERATING NUT ON STEAMER AND HOSE NOZZLE CAPS SHALL OPEN LEFT, AND SHALL BE 1 1/8" TO 1 ½" PENTAGON.
10. HYDRANT SHALL HAVE A BREAKABLE FLANGE TYPE BARREL.

6/2 FIRE HYDRANT DETAIL
NOT TO SCALE
KENNEDY GUARDIAN K81D



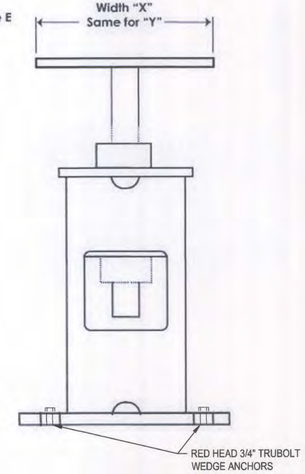

| Meter and Pipe Size | Normal Operating Range | Connections | A | B | C | D | E | F | G | H | J | Net Weight | Shipping Weight | Standard Fireline² |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6" DN 150mm | 3 gpm 2000 gpm .681 m³/hr 454 m³/hr | Flanged | 45" 1143mm | 15-3/4" 400mm | 15/16" 24mm | 22-3/8" 568mm | 5-3/4" 146mm | 9-1/2" 241mm | 8 | 3/4" 19mm | 2" 51mm | 394 lbs. 179 kg. | 449 lbs. 204 kg. | 67-5/8" 1718mm |

A/- 6" MAIN METER DETAIL
NOT TO SCALE
OMNI FIRELINE² (F2) 8" WATER METER
TO BE PROVIDED BY ONONDAGA COUNTY WATER AUTHORITY




HYDRANT IN OFF POSITION

5/2 SANITARY YARD HYDRANT DETAIL
NOT TO SCALE
MURDOCK MODEL M-EXPELO




B/- PIPE SUPPORT DETAIL
NOT TO SCALE
HEARTLAND PIPE SUPPORT SYSTEMS TYPE E

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Department of Environmental Conservation
NEW YORK STATE OF OPPORTUNITY

| NO. | DATE | DESCRIPTION |
|---|---|---|

REVISIONS

DETAILS I

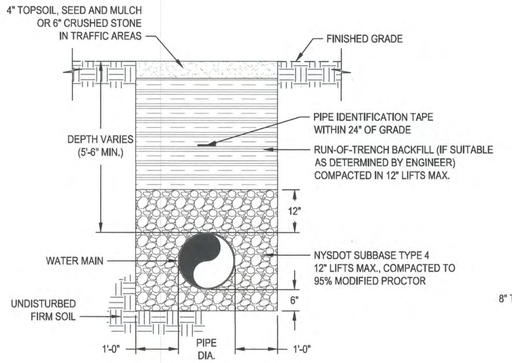
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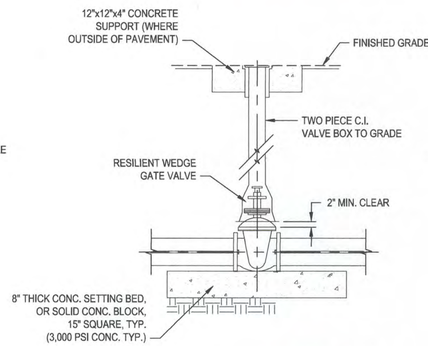
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| SCALE | AS SHOWN |

DONALD FRANCIS CONAN
LICENSED PROFESSIONAL ENGINEER
75665
STATE OF NEW YORK

SHEET # 3

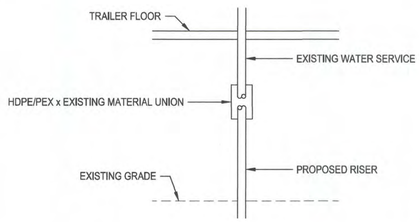



TYPICAL RESTORATION DETAIL
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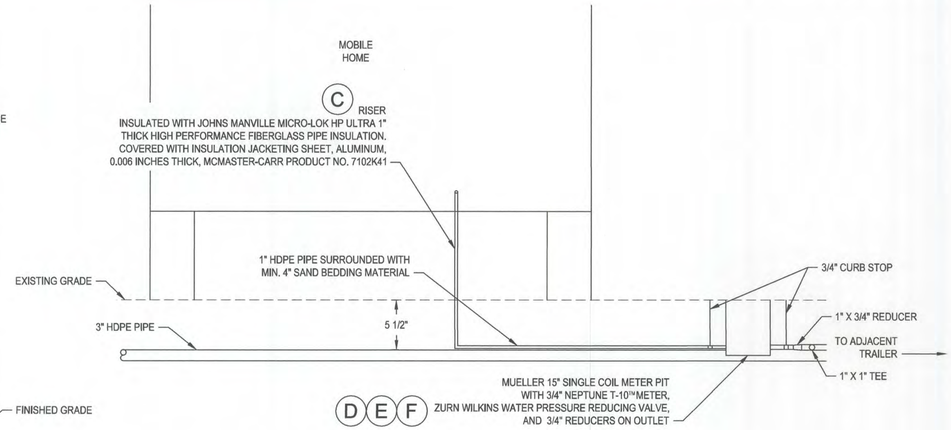



NOTE :
ALL VALVES TO INCLUDE MEGA-LUG RETAINER GLANDS AND BE RODDED BACK TO THE ADJACENT TEE IN THE WATER MAIN. INLINE VALVES NEED NOT BE RODDED. CONTRACTOR TO UTILIZE ¾"Ø GALVANIZED STEEL RODS WITH MALLEABLE IRON NUTS AT 180° SPACING.

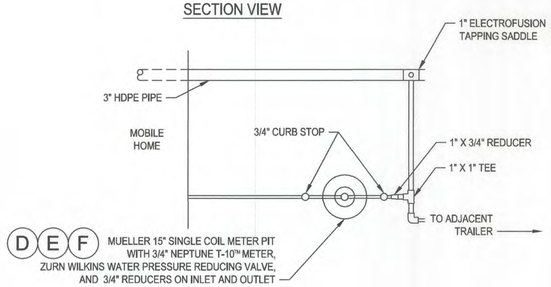
8/2 TYPICAL WATER VALVE DETAIL
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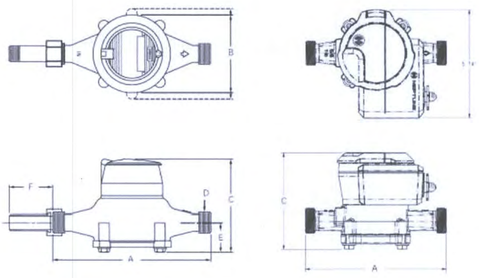

C/- TYPICAL RISER DETAIL
NOT TO SCALE




SECTION VIEW




PLAN VIEW



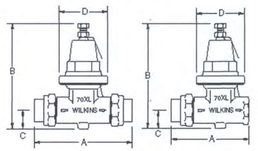




| Meter Size | A in/mm | B in/mm | C-Std. in/mm | C-ARB in/mm | C E-Coder™R900i™ or E-Coder™R450i™ | D Threads per inch | D-OD in/mm | E in/mm | F in/mm | Weight lbs/kg |
|---|---|---|---|---|---|---|---|---|---|---|
| ¾" | 9<br>229 | 4 3/8<br>111 | 5 1/2<br>140 | 6 1/4<br>159 | 6 1/4<br>159 | 11 1/2 | 1.29<br>33 | 1 7/8<br>48 | 2 5/8<br>67 | 6<br>2.7 |
| ¾" SL | 7 1/2<br>911 | 4 3/8<br>111 | 5 1/2<br>140 | 6 1/4<br>159 | 6 1/4<br>159 | 11 1/2 | 1.29<br>33 | 1 7/8<br>48 | 2 5/8<br>67 | 5 1/2<br>2.5 |

D/- 3/4" WATER METER DETAIL
NOT TO SCALE

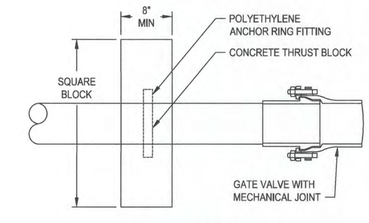
3/4" NEPTUNE T-10™ METER
TO BE PROVIDED BY GES



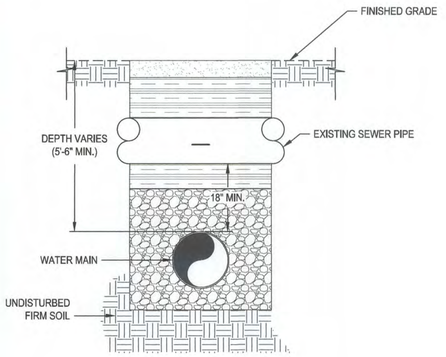

| SIZE | | CONNECTIONS | DIMENSIONS (APPROXIMATE) | | | | | | | | WEIGHT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | | B | | C | | D | | | |
| in. | mm | | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg. |
| 1 | 25 | SINGLE UNION | 5 | 127 | 6 11/16 | 170 | 1 | 25 | 3 3/8 | 86 | 4.1 | 1.9 |
| 1 | 25 | DOUBLE UNION | 5 7/8 | 149 | 6 11/16 | 170 | 1 1/8 | 29 | 3 3/8 | 86 | 4.5 | 2.0 |

E/- WATER PRESSURE REDUCING VALVE DETAIL
NOT TO SCALE
ZURN WILKINS WATER PRESSURE REDUCING VALVE 1" PIPE
(SEE DETAIL NO. 11)

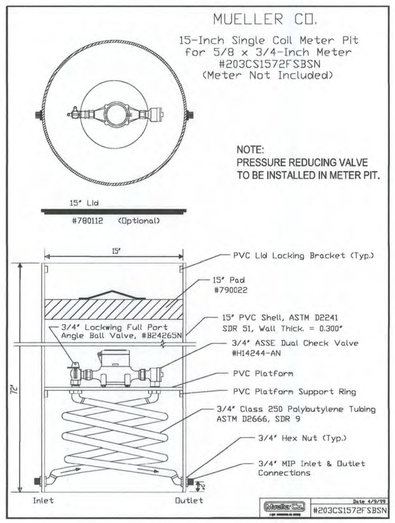
NOTE: PRESSURE RELIEF VALVE - CONTRACTOR SHALL INITIALLY SET PRESSURE RELIEF VALVE AT 30 PSF AND FIELD ADJUST UPON HOOKUP.




11/2 LONGITUDINAL FORCE THRUST BLOCK DETAIL
NOT TO SCALE



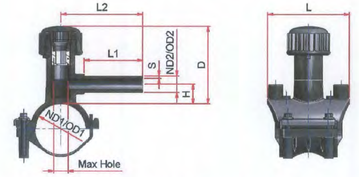

9/2 TYPICAL SEWER CROSSING DETAIL
NOT TO SCALE



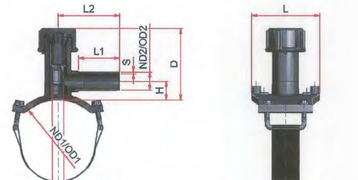

F/- METER PIT DETAIL
NOT TO SCALE
MUELLER 15" SINGLE COIL METER PIT
(SEE DETAIL NO. 11)

10/2 TYPICAL MOBILE HOME CONNECTION DETAIL
NOT TO SCALE

NOTE: CONTRACTOR SHALL INSPECT EACH TRAILER, DETERMINE EXISTING SERVICE PIPE DIAMETER, AND SELECT APPROPRIATE CONNECTION FITTING.




| CODE | ND1 | OD1 | ND2 | OD2 | S | H | L1 | L2 | L | D | Max Hole |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12EIPRES0301C | 3" IPS | 3.500 | 1" CTS | 1.125 | 0.101 | 0.87 | 2.56 | 3.94 | 3.94 | 3.95 | 0.71 |




| CODE | ND1 | OD1 | ND2 | OD2 | S | H | L1 | L2 | L | D | Max Hole |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12EIPRES0834 | 8" IPS | 8.625 | 3/4" IPS | 1.050 | 0.095 | 1.57 | 2.75 | 4.13 | 5.90 | 6.30 | 0.94 |





G/- TAPPING SADDLE DETAILS
NOT TO SCALE
EIOFIT TAPPING TEE
(SEE DETAIL NO. 11)

WARNING - IT IS A VIOLATION OF NEW YORK EDUCATION LOW, ARTICLE 145, SECTION 7209.2, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY, IF ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL COMPLY WIHT THE REQUIREMENTS OF NEW YORK EDUCATION LAW, ARTICLE 145, SECTION 7209.2.

Department of Environmental Conservation
NEW YORK STATE OF OPPORTUNITY

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | REVISIONS |

DETAILS II

CROSBY HILL MOBILE HOME PARK
WATER DISTRIBUTION SYSTEM DESIGN
2857 STATE ROUTE 3
VOLNEY, OSWEGO COUNTY, NEW YORK

PREPARED BY:
EA ENGINEERING, P.C.
AND ITS AFFILIATE
EA SCIENCE AND TECHNOLOGY

| | |
|---|---|
| EA # | 1490742 |
| FILE | Crosby Hill Mobile Park.dwg |
| DRAWN BY | JRM |
| DATE | FEBRUARY 2019 |
| SCALE | AS SHOWN |

STATE OF NEW YORK
DONALD FRANCIS CONNELL
LICENSED PROFESSIONAL ENGINEER
75686

SHEET # 4

# Appendix C

# Request for Quote and Addendum No. 1

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# Groundwater & Environmental Services, Inc.
# Request for Quote – Water Service Installation

Site Address:

- Crosby Hill Mobile Home Park
  - 2657 State Route 3, Volney, NY 13069

Due date for Bids:

- **Wednesday June 19, 2019, 5 pm EST**
- Due to time pressures on the project, no extensions of this deadline will be given.

Date of Required Bid Walk:

- **Wednesday May 29, 2019, 10 am EST**

Questions:

- Any questions related to this RFQ shall be submitted in writing via email to both Scott McDonald and Genevieve Bock at smcdonald@gesonline.com and gbock@gesonline.com
- All questions shall be submitted by **Wednesday, June 5, 2019 by 5 pm EST.**
- Answers to all questions shall be supplied via email to all Contractors (likely around June 12th).

Tentative Start Date:

- As soon as feasible pending obtaining materials and Contractor schedule.

**Scope of Work Summary:**

GES is requesting an itemized, written cost proposal for installation of publicly-supplied water service to the Crosby Hill Mobil Home Park. This work will be performed for the New York State Department of Environmental Conservation (NYSDEC) under the direction of GES and the NYSDEC engineering consultant – EA Engineering, P.C. (EA). General scope items include:

- Horizontally drilling water mains including completing utility clearance
- Installing a hot box, electrical service, concrete pad and protective bollards around a main water meter and backflow preventer
- Installation of valves, saddles, hydrants, curb stops and meter pits
- Installation of thrust blocks as required
- Installation of individual service lines and tees to homes in the park including excavation, backfilling, compaction, and restoration
- Pressure testing, disinfecting, and flushing the distribution system

- Bacteriological sample collection and analysis from the water main
- Transport and disposal of the following wastes (assume non-hazardous classification):
  - Soil
  - Drilling fluids/mud
- Restoration of disturbed areas with either topsoil/seed/mulch or gravel.

General project information is summarized in this RFQ and specifications of the project are detailed in the following attachments:

- Design Drawings (**Appendix A**)
- Section 33 05 23.13 Utility Horizontal Directional Drilling (**Appendix B**) *{Specifications}*
- Section 33 11 00 Water Utility Distribution Piping and Appurtenances (**Appendix C**) *{Specifications}*
- Bid Sheet (**Appendix D**)
- Bid Exception and Subcontractor Sheet (**Appendix E**)
- Soil Map, Oswego County (**Appendix F**)

**Payment & Qualifications:**

- The Subcontractor must be GES approved, and will bill GES directly in accordance with the Terms & Conditions agreed to in the subcontractor MSA between the contractor and GES.
  - Flow-down requirements from GES' Client will be in effect.
  - Regardless of agreements between the Contractor and GES in your MSA, payment terms will be 10 days after GES is paid (paid-when-paid) and no discounts apply.
- All on-site personnel must have OSHA 40Hr HAZWOPER Training and Loss Prevention System (LPS) training (GES oversight personnel can provide on-site LPS Training for subcontractors).

**Required Submittals as part of the cost proposal:**

- Completed Bid Sheet (**Appendix D**)
- Completed listing of subcontractors and written deviations/assumptions to the scope of work (**Appendix E**)
- Gantt chart depicting the anticipated schedule for completion of all work activities from the time of project award
- General methodology for completing the project which should include a list of anticipated permits, general plan for ensuring the safety of workers in open excavations (sloping/shoring, etc.), anticipated facilities for waste disposal, and a list of main equipment to be utilized.

**Contracting Details:**

- The Client (NYSDEC) has specific contracting mechanisms. Payment will only be made in the form of units as detailed on the attached bid form (**Appendix D**).
  - The bid form indicates the estimated number of units only. The Contractor can only invoice and be paid for the actual number of units utilized/completed during the project.
  - All requirements of the project as detailed in the attached Design Drawings and Specifications must be completed by the Contractor even if not specifically referenced in the units on the bid form. Therefore, the Contractor shall include pricing for all project requirements as noted in the Design Drawings and Specifications within the unit rates provided in the bid form.
  - Generally, ½ of the mobilization/demobilization unit can be billed after mobilization is complete and work is started on the project site. Then second ½ of the mobilization/demobilization lump

sum unit can be billed upon successful completion of the job and demobilization of all personnel, equipment, and supplies from the site. If the Contractor wished to propose a different payment mechanism for invoicing the mobilization/demobilization unit, this must be detailed in your assumptions/exceptions page (**Appendix E**).

- Change orders:
  - Due to NYSDEC procurement department requirements, change orders will not be given at any time during the project unless the NYSDEC or EA request additional work be added to the scope. At that time, the Contractor will be required to provide a written change order responding to the requested additional of scope which must be approved by the NYDEC and by GES via execution of an additional GES subcontract before work proceeds.
  - Due to the item above, the Contractor shall thoroughly review the attached Design Drawings and Specifications and shall request any and all clarifications in writing during the bid process that are required to provide a fully responsive bid.

**Required Submittals from the Winning Bidder To Be Submitted Prior to Mobilization:**

- Specific Project Submittals:
  - The attached Design Drawings and Specifications detail individual submittals which are required to be provided. These submittals which include shop drawings/manufacturer cut sheets for all piping, fittings, valves, and equipment, a written drilling plan, a directional drilling contingency plan, and HDPE fusion welding quality assurance plan.
  - Additionally, the Contractor shall provide a map detailing proposed equipment, waste, and materials staging areas on-site for the project.
  - The Contractor shall also specify the name and address or proposed non-hazardous waste facilities to be utilized. All disposal facilities must be permitted facilities in compliance with federal, state, and local regulations.
  - All submittals detailed in the Design Drawings and Specifications must be provided within 3 weeks from completion of contracting with GES.
  - All submittals will be reviewed by EA Engineering, P.C. (EA). EA will provide either approval of submittals or feedback on required amendments/additions.
  - Mobilization to the site to complete work cannot commence until all submittals are approved by EA and the NYSDEC.
- Health & Safety Submittals:
  - Level of personal protective equipment (PPE) to be utilized by all on-site personnel.
  - Job Safety Analysis (JSAs) for all work tasks (horizontal drilling, excavation, backfilling, pipe fusing, etc.).
- Additional Submittals:
  - After submittals are approved by EA, the Contractor shall provide an updated project schedule at least 2 business days before mobilization.

**Equipment Requirements:**

- All equipment used shall be in good working condition. Use of leaking equipment will not be permitted on site.
- Equipment shall be inspected daily before use.

## General Notes:

- The Subcontractor will contact UFPO for a public mark-out. The contractor shall take all reasonable precautions to prevent damage to utilities.
    - GES will directly coordinate for a private utility mark-out to be completed prior to the Contractor mobilizing to the site to start work. The sewer line and other utilities will be marked-out during the private mark-out.
- The contractor shall have Health & Safety equipment including personal protective equipment (PPE), barricades, fencing, caution tape, road cones, whip checks/locking pins, etc.
- The immediate work area for trenching and piping installation will be within the occupied mobile home park. Therefore, the Contractor must provide and utilize appropriate traffic control devices around all work areas and open excavations at all times to protect both Contractor workers and the public.
- The contractor shall provide port-a-potty facilities for the duration of the project. The contractor shall identify the number of port-a-potty facilities to be provided based on the size of the work crew at the site, but shall provide a minimum of one (1) port-a-potty for the duration of the project. The portable restroom facilities shall be serviced every week at a minimum or at a more frequent appropriate timeframe designated by the contractor based on the size of the work crew.
- The Contractor shall be responsible for providing all materials, equipment, and labor for completion of the project as indicated in this RFQ and as shown on the Drawings (**Appendix A**) and the Specifications (**Appendix B** and **C**) in a safe and efficient manner even if not specifically referenced in this RFQ.
- Although material details provided in the Specifications (**Appendix B** and **C**) often refer to an "approved equal", the Contractor should note that the following items can not be substituted for equals due to previous approval of material specifications from the local town or public water supplier:
    - Fire hydrant
    - Flushing hydrant
    - Backflow preventer
    - Meter Pits

## Project Information:

- Contractor shall assume that personnel in excavations must be protected/shielded via trench boxes or other mechanical stabilization means such that OSHA requirements are followed.
    - Sloping/benching the walls will not be allowed to minimize disturbance to the property.
- Soil type:
    - Limited information is available about the soil type at the site.
    - Based on the Oswego County Web Soil Survey, the majority of site soil is gravelly loamy sand, with some gravelly fine sandy loam in the northwest corner of the property (see **Appendix F**).
- Depth to Water & Dewatering Needs:
    - Depth to groundwater information at the site is limited. The property owner has indicated he has never encountered water at the site to depths of at least 4 feet below grade.
    - For the purpose of this RFQ, the Contractor shall assume that no groundwater will be encountered during trenching activities. However, the Contractor shall provide costs in the Bid Form for mobilizing dewatering equipment to the site in the event water is encountered.
        - The mobilization/demobilization charge for the dewatering equipment shall cover all time, effort, coordination, and transport to mobilize necessary dewatering equipment to the site.

        - The Contractor shall provide one (1) frac tank (at least 20,000 gallon capacity) and all pumps and hoses required to dewater individual excavations into the frac tank.
    - The Contractor shall provide a weekly dewatering equipment rental rate. This unit will be billed for each 7-day period the equipment is on-site during the project.
        - GES will be responsible for providing water treatment equipment and operating water treatment equipment to treat and discharge water from the frac tank. Rental of the dewatering equipment will be necessary until all water is treated and discharged by GES.
    - In order to account for any time delay in work progression associated with needing to dewater excavations is necessary, the Contractor shall provide a per gallon unit price associated with dewatering. The contractor shall provide an influent totalizer on the hosing before the frac tank to account for the gallons of water pumped to be invoiced on the rate provided. The totalizer shall be brass or another type of mechanical totalizer – not an electronic display totalizer.
- Drilling fluids:
    - The Contractor shall utilize hydrant water for drilling fluids and shall obtain the appropriate OCWA permit for hydrant use.
        - The Contractor shall use a de-sander/recycler and filter box for sediment.
        - Drilling fluids will be disposed of off-site by the Contractor.
- Restoration:
    - Restoration will include topsoil and seed or crushed stone to match pre-existing conditions in all disturbed areas as indicated in the Drawings.
    - If restoration other than topsoil/seed and crushed stone is required, the Contractor will discuss with GES during the project and submit an itemized change order for an alternate restoration. No work will proceed until the change order is fully approved and a new work order is executed between GES and the Contractor for the change order amount.
- Pipe Insulation Required:
    - On page 33 11 00-8 of the specifications, it states “Provide a minimum of 5.5’ of cover over watermain, unless otherwise shown on the drawings or directed by GES. For watermains with less than 5.5’ of cover, provide insulation as shown on the drawings, or as directed by GES.”
    - Insulation, if required, shall be 1-inch of rigid foam insulation per 1 foot above the frost line, defined as 5’ below grade. Therefore, between 5’ and 4’ below grade, 1-inch of insulation is required, between 4’ and 3’ below grade, 2-inches of insulation is required, etc.

**Permits:**

- The Contractor shall be responsible for determining if any permits are required to complete this scope of work and shall detail the required permits with their proposal (including electrical permits). The Contractor is responsible for obtaining and appropriately closing-out all permits to complete the scope of work.
    - Specifically, the Contractor shall obtain an OCWA hydrant use permit.
    - It is anticipated that the Contractor will need to obtain a DOT permit for working in the road righ-of-way.
    - OCWA connection fee: The Contractor will be responsible for coordination of payment of the OCWA connection fee; however, GES will provide the Contractor with a check for the actual fee amount to be submitted to the OCWA.

**Power Availability at the Site:**

- Power availability at the Site will be discussed with the property owner at the mandatory bid walk.

**Waste Disposal:**

- The Contractor will be responsible for sampling, laboratory analysis, coordination, transportation, and disposal of all waste unless otherwise noted. Copies of all approved waste profiles and manifests shall be provided to GES. The GES on-site representative will sign manifests and bills of lading on behalf of the Client as required.
- The Contractor shall assume that all waste material is classified as non-hazardous.
    - Drilling fluids:
        - Drilling fluids shall be disposed of off-site at a licensed disposal facility.
        - All drilling fluids shall be sampled per disposal facility requirements prior to transport off-site.
    - Drilling mud/cuttings & Soil from trenches:
        - Drilling mud/cuttings and excavation soils shall be staged and sampled for PFOA and PFOS. Soils with concentrations exceeding 140 ppb of either PFOA or PFOS shall be disposed of off-site. Otherwise, soils shall be reused as backfill material in the trenches or spread onsite in a location designated by the property owner. This work shall be included in the base price of excavation/drilling per foot.
            - If soil must be disposed of off-site, the Contractor shall be responsible for sampling the soil as necessary per the approved disposal facility requirements.
            - If it is determined that soils must be disposed of off-site, the Contractor will bill the bid form unit price per cubic yard for soils which are disposed of off-site. In the event that additional clean backfill material is needed to be brought on-site to backfill excavations (if soils cannot be reused for backfill), the Contractor will bill backfill material on a cubic yard basis. Delivery tickets for backfill will be required as back-up for invoices.
        - Samples shall be analyzed for the 21 compound PFOA/PFOS list via modified EPA Method 537 with a reporting limit of 1 part per billion.
            - Soils may remain on-site if concentrations of PFOA or PFOS does not exceed 140 parts per billion (ppb).
            - GES, the NYSDEC, and EA will review and approve soil laboratory analytical reports to confirm soil reuse is acceptable.
        - Drilling mud: At least one grab sample per main shall be collected unless the volume is >500 cubic yards, then collect 2 grab samples. If the volume per main exceeds 1,000 cubic yards, collect one grab sample every 1,000 cubic yards thereafter.
        - Excavated soils: Excavated soils shall be sampled at the frequency of one grab sample per excavation shall be collected unless the volume is >500 cubic yards, then collect 2 grab samples. If the volume per excavation exceeds 1,000 cubic yards, collect one grab sample every 1,000 cubic yards thereafter.
    - Groundwater:
        - If dewatering activities are required during soil excavations, the Contractor is not responsible for water disposal off-site. The Contractor shall be responsible for dewatering the excavation and providing dewatering equipment as detailed elsewhere in the RFP.

- GES will coordinate treatment and disposal of water from the frac tank provided by the Contractor as part of supplied dewatering equipment.

**Proposed Rates for Weather-Related Delays:**

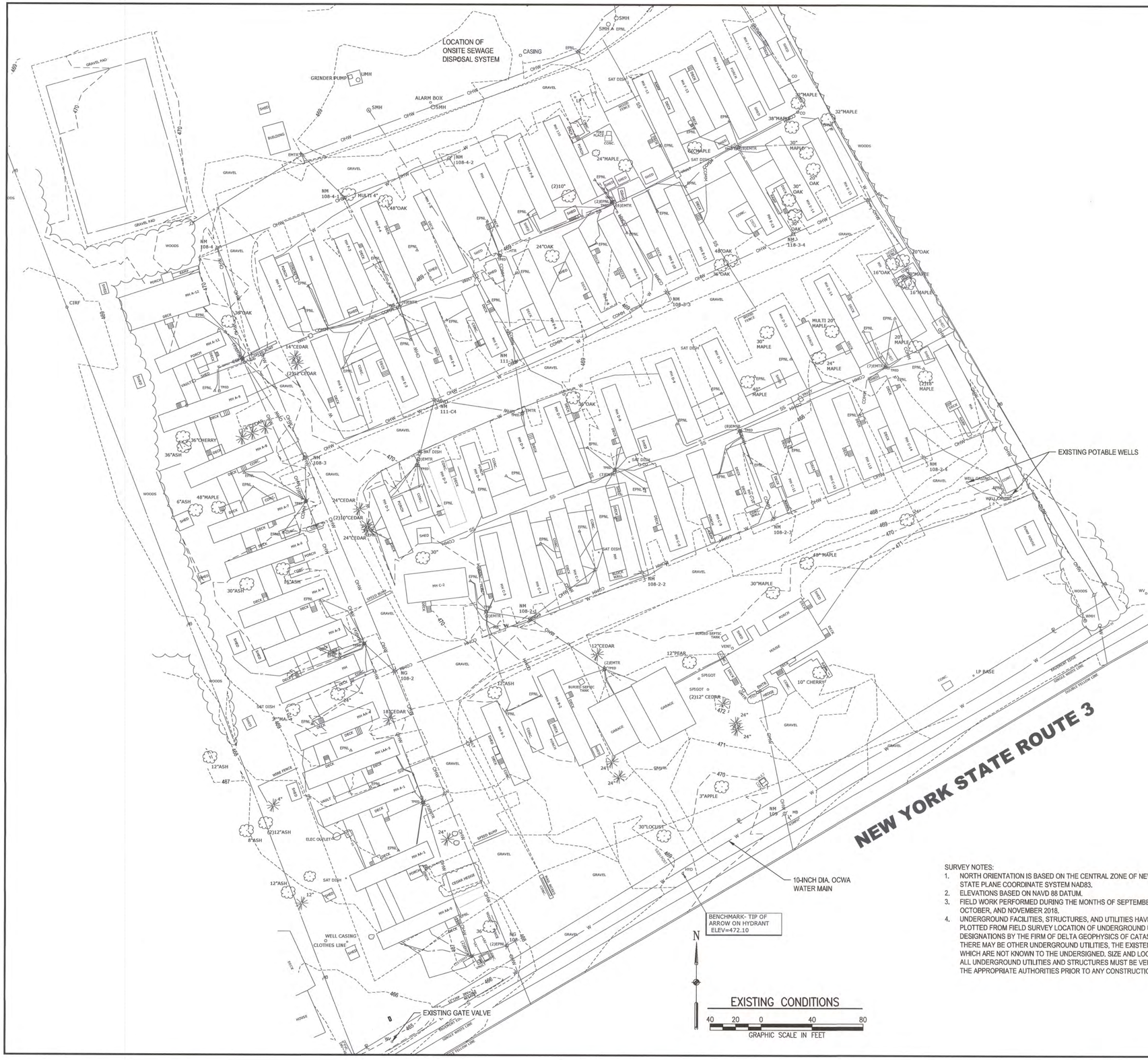
- The contractor shall include in their unit pricing as defined on the Bid Sheet normal delays associated with routine weather issues including rain, heat, cold, etc.
- However, in the event that the execution of this project on-site continues into the winter months, the Contractor shall provide an hourly unit rate on the Bid Sheet to account for on-site mechanical snow removal to clear the work area so that routine work can progress (via skid steer or other similar equipment). These units will only be able to be billed out if the Contractor is actually clearing snow during the work.

**OTHER NOTES AND ITEMS TO FOLLOW:**

- Soft dig methods will be required at each location where the existing water service to each residence and the existing sewer line is exposed (exploratory excavations).
- The Contractor shall repair at no cost to GES or the Client any damage to utilities, foundations, or other site structures which occur during the course of the project.
- General refuse will be disposed by the contractor.
- This project will be exempt from NYS Sales Tax. A ST120.1 tax exempt form will be issued by GES to the subcontractor.
- GES reserves the right to reject any and all bids in its sole discretion. Any award to supplier shall only be by written Work Order executed by authorized representatives of GES and Supplier.

# Appendix A

## Design Drawings







GENERAL LOCATION MAP
NOT TO SCALE

**PROJECT LOCATION:**
**CROSBY HILL MOBILE HOME PARK**
**2657 STATE ROUTE 3**
**VOLNEY, NY 13069**

**MUNICIPALITIES:**
**TOWN OF VOLNEY**
**OSWEGO COUNTY, NY**

**TAX PARCEL ID:**
**237.01-01-15.12**

**OWNER INFORMATION:**
**TODD REDHEAD**
**SILVER ROCK MOBILE HOME PARK**
**136 COUNTY ROUTE 57**
**PHOENIX, NY 13135**

**DESIGN ENGINEER**
**DONALD CONAN P.E.**
**EA ENGINEERING, P.C.**
**269 WEST JEFFERSON STREET**
**SYRACUSE, NEW YORK 13202**

LEGEND

| | |
|---|---|
| UP | UTILITY POLE UTILITY POLE W/LIGHT |
| EPNL | ELECTRIC PANEL |
| EMTR | ELECTRIC METER |
| LP | LIGHT POLE |
| | GUY WIRE |
| UMH | UNKNOWN MANHOLE |
| TPED | TELEPHONE PEDESTAL |
| GMTR | GAS METER |
| WMH | WATER MANHOLE |
| WV | WATER VALVE |
| HYD | HYDRANT |
| SMH | SANITARY MANHOLE |
| CO | CLEAN OUT |
| | SIGN |
| MB | MAILBOX |
| CIRF | CAPPED IRON ROD FOUND |
| MH B-1 | MOBILE HOME DESIGNATION |
| W | WATER LINE |
| OHW | OVERHEAD WIRES |
| ST | STORM DRAIN |
| | WOOD FENCE |
| | CHAIN LINK FENCE |
| UE | UNDERGROUND ELECTRIC LINE |
| COMM | UNDERGROUND COMMUNICATION LINE |
| UU | UNKNOWN ANOMALY LINE |
| SS | SANITARY SEWER LINE (DASHED WHERE INFERRED) |
| | PROPERTY FROM TAX MAP |
| | DECIDUOUS TREE |
| | CONIFEROUS TREE |
| 470 / 471 | EXISTING CONTOURS |

SURVEY NOTES:
1. NORTH ORIENTATION IS BASED ON THE CENTRAL ZONE OF NEW YORK STATE PLANE COORDINATE SYSTEM NAD83.
2. ELEVATIONS BASED ON NAVD 88 DATUM.
3. FIELD WORK PERFORMED DURING THE MONTHS OF SEPTEMBER, OCTOBER, AND NOVEMBER 2018.
4. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM FIELD SURVEY LOCATION OF UNDERGROUND UTILITY DESIGNATIONS BY THE FIRM OF DELTA GEOPHYSICS OF CATASAUQUA, PA. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN TO THE UNDERSIGNED. SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO ANY CONSTRUCTION.

WARNING - IT IS A VIOLATION OF NEW YORK EDUCATION LOW, ARTICLE 145, SECTION 7209.2, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY, IF ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL COMPLY WHT THE REQUIREMENTS OF NEW YORK EDUCATION LAW, ARTICLE 145, SECTION 7209.2.

Department of Environmental Conservation
NEW YORK STATE OF OPPORTUNITY

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 1/7/18 | FOR REGULATORY REVIEW |

REVISIONS

EXISTING CONDITIONS

CROSBY HILL MOBILE HOME PARK
WATER DISTRIBUTION SYSTEM DESIGN
2657 STATE ROUTE 3
VOLNEY, OSWEGO COUNTY, NEW YORK

PREPARED BY:
EA ENGINEERING, P.C.
AND ITS AFFILIATE
EA SCIENCE AND
TECHNOLOGY

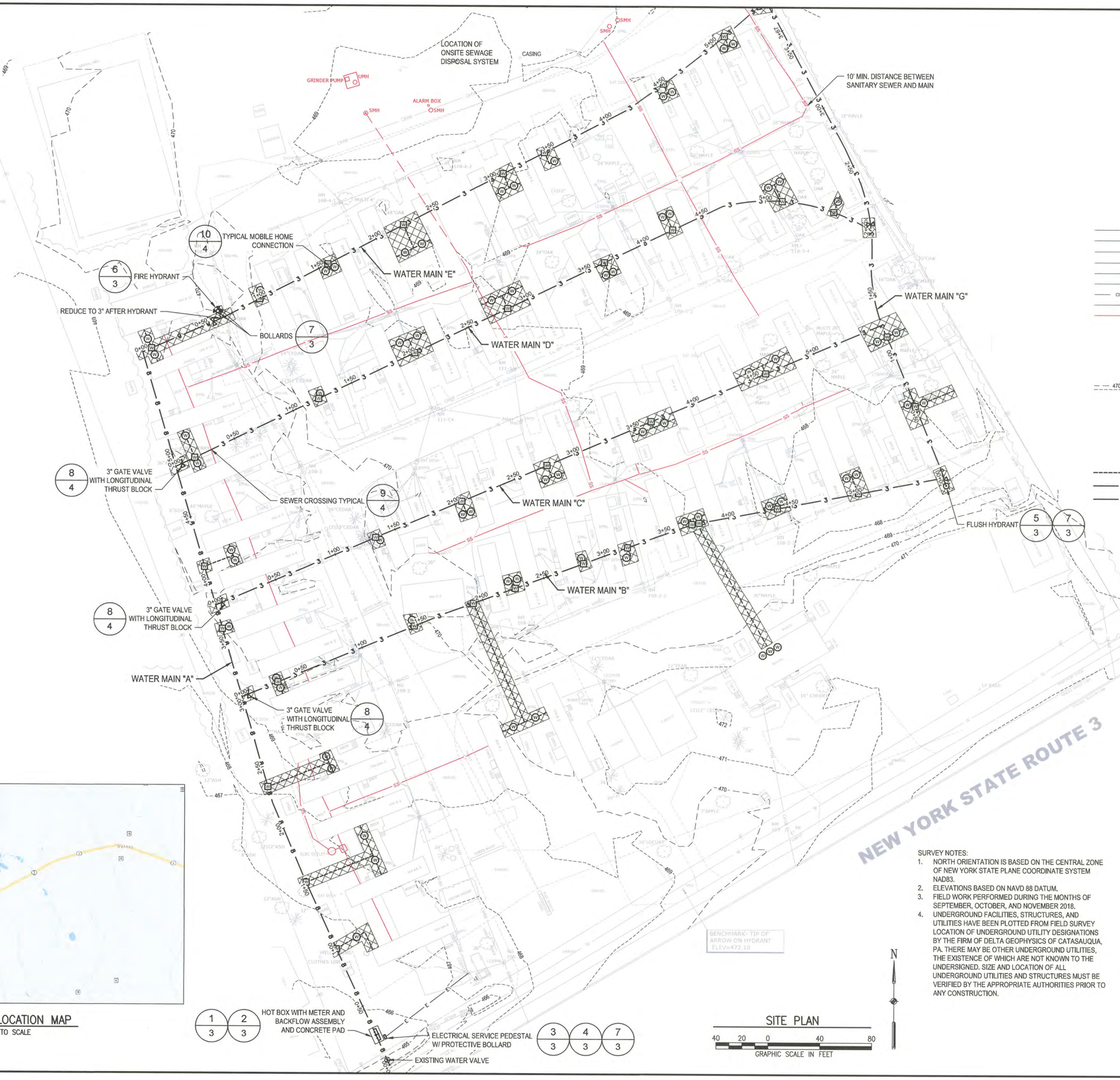
| | |
|---|---|
| EA # | 1490742 |
| FILE | Crosby Hill Mobile Park.dwg |
| DRAWN BY | JRM |
| DATE | FEBRUARY 2019 |
| SCALE | AS SHOWN |

STATE OF NEW YORK
DONALD FRANCIS CONAN III
LICENSED PROFESSIONAL ENGINEER
75665

SHEET # 1




TYPICAL 8" X 3" CONNECTION







GENERAL LOCATION MAP
NOT TO SCALE

SITE PLAN
40 20 0 40 80
GRAPHIC SCALE IN FEET

N

LEGEND

| | |
|---|---|
| | UTILITY POLE UTILITY POLE W/LIGHT |
| EPNL | ELECTRIC PANEL |
| EMTR | ELECTRIC METER |
| LP | LIGHT POLE |
| | GUY WIRE |
| UMH | UNKNOWN MANHOLE |
| TPED | TELEPHONE PEDESTAL |
| GMTR | GAS METER |
| WMH | WATER MANHOLE |
| WV | WATER VALVE |
| HYD | HYDRANT |
| SMH | SANITARY MANHOLE |
| CO | CLEAN OUT |
| | SIGN |
| MB | MAILBOX |
| CIRF | CAPPED IRON ROD FOUND |
| MH B-1 | MOBILE HOME DESIGNATION |
| W | WATER LINE |
| OHW | OVERHEAD WIRES |
| ST | STORM DRAIN |
| | WOOD FENCE |
| | CHAIN LINK FENCE |
| UE | UNDERGROUND ELECTRIC LINE |
| COMM | UNDERGROUND COMMUNICATION LINE |
| UU | UNKNOWN ANOMALY LINE |
| SS | SANITARY SEWER LINE (DASHED WHERE INFERRED) |
| | PROPERTY FROM TAX MAP |
| | DECIDUOUS TREE |
| | CONIFEROUS TREE |
| 470 471 | EXISTING CONTOURS |
| | PROPOSED FIRE HYDRANT |
| | PROPOSED YARD HYDRANT |
| W | PROPOSED WATER METER |
| M | PROPOSED 1" TAPPING SADDLE |
| | PROPOSED GATE VALVE WITH MJ ADAPTER |
| | PROPOSED 1" SERVICE |
| 3 3 | PROPOSED 3" HDPE WATER PIPE |
| 8 8 | PROPOSED 8" HDPE WATER PIPE |
| | PROPOSED EXCAVATION AREA |
| 0+00 | STATIONING ON MAINS |

DETAIL REFERENCE NUMBER — 1/3 — DRAWING ON WHICH DETAIL APPEARS
"-" INDICATES TYPICAL OR ON SAME DRAWING

NOTES:
1. MAIN WATER METER AND BACKFLOW PREVENTER ASSEMBLY TO BE HOUSED ABOVE GRADE IN A HUBELL HOT BOX ALUMINUM ENCLOSURE PRODUCT NO. HA087144085 (OR EQUIVALENT) WITH RODENT SCREENS AND FLAPPERS ON DRAIN PORTS.
2. CONTRACTOR SHALL USE MECHANICAL JOINTS BELOW GRADE AND FLANGED JOINTS ABOVE GRADE.
3. PIPE AND FITTINGS ARE TO BE 8" AND 6" DUCTILE IRON FROM EXISTING VALVE TO UNDER GROUND LATERAL LINE AFTER BACKFLOW PREVENTER.
4. 3" AND 8" MAINS TO BE DIRECTIONALLY DRILLED DR-II HDPE PIPE WITH TRACER WIRE, PER ASTM F1962-11. EXCAVATION LIMITS AS SHOWN.
5. ALL PIPE FITTINGS AND ADAPTERS SHALL BE FREE OF LEAD AND SHALL BE NSF61 CERTIFIED FOR POTABLE WATER WORK AND COMPATIBLE WITH OTHER COMPONENTS OF THE DISTRIBUTION SYSTEM.
6. CONTRACTOR TO IDENTIFY WATER SERVICE LOCATION AT EACH UNIT PRIOR TO INSTALLATION. LOCATIONS SHOWN ARE APPROXIMATE.
7. HOUSE ON PROPERTY ON STATE ROUTE 3 CONTAINS THREE UNITS THAT WILL EACH HAVE ITS OWN 3/4" METER AND WATER PRESSURE REDUCING VALVE IN THE BASEMENT OF THE STRUCTURE. CONTRACTOR TO DETERMINE WHERE 3" LINE REDUCES AND SPLITS TO 1" LINES.
8. PROPOSED WATER DISTRIBUTION SYSTEM SHALL NOT BE CONNECTED TO EXISTING PRODUCTION WELLS.
9. WATER MAINS SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.
10. PRESSURE TESTING AND DISINFECTION OF WATER DISTRIBUTION MAINS SHALL BE PERFORMED IN ACCORDANCE WITH AWWA STANDARDS C-901-17, C-906-15, AND C-651.
11. CONTRACTOR SHALL USE RESTRAINED (MECHANICAL) JOINTS ON ALL FITTINGS.
12. CONTRACTOR SHALL VERIFY STORM SEWER LOCATION AND DEPTH. PROVIDE PIPE PROFILES PRIOR TO DIRECTIONAL DRILLING.
13. EXISTING WATER LINES SHALL BE PROTECTED DURING EXCAVATION AND DRILLING ACTIVITIES. MOBILE HOME PARK TO REMAIN ON EXISTING WELL WATER UNTIL CONNECTED TO PROPOSED SYSTEM.
14. PRIOR TO PRESSURE TEST, MAINS SHALL BE INSTALLED FROM THE EXISTING 8" GATE VALVE UP TO THE CURB STOP AFTER EACH UNIT'S METER BOX. A 10-FT SACRIFICIAL PIPE SHALL BE CONNECTED TO THAT CURB STOP FOR USE DURING PRESSURE TEST AND DISINFECTION.
15. PRIOR TO CONNECTING THE LAST TRAILER TO THE PROPOSED SYSTEM, EXISTING PUMP SHALL BE TURNED OFF AND WELLS SHALL BE DISCONNECTED FROM THE EXISTING WATER DISTRIBUTION PIPE.

SURVEY NOTES:
1. NORTH ORIENTATION IS BASED ON THE CENTRAL ZONE OF NEW YORK STATE PLANE COORDINATE SYSTEM NAD83.
2. ELEVATIONS BASED ON NAVD 88 DATUM.
3. FIELD WORK PERFORMED DURING THE MONTHS OF SEPTEMBER, OCTOBER, AND NOVEMBER 2018.
4. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM FIELD SURVEY LOCATION OF UNDERGROUND UTILITY DESIGNATIONS BY THE FIRM OF DELTA GEOPHYSICS OF CATASAUQUA, PA. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN TO THE UNDERSIGNED. SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO ANY CONSTRUCTION.

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NEW YORK STATE OF OPPORTUNITY

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SITE PLAN

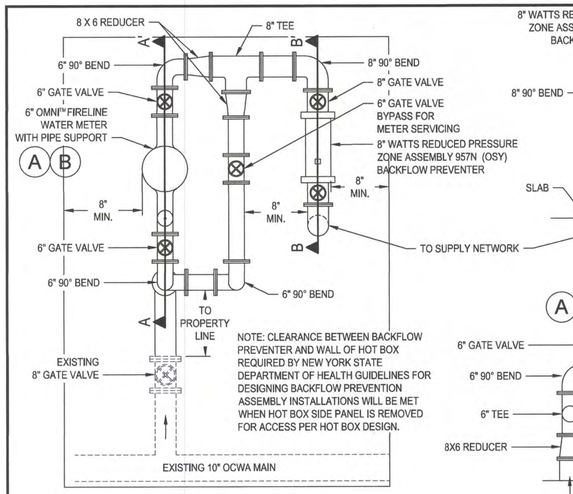
CROSBY HILL MOBILE HOME PARK
WATER DISTRIBUTION SYSTEM DESIGN
2857 STATE ROUTE 3
VOLNEY, OSWEGO COUNTY, NEW YORK

PREPARED BY:
EA ENGINEERING, P.C.
AND ITS AFFILIATE
EA SCIENCE AND
TECHNOLOGY

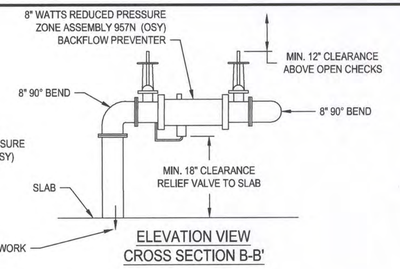
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| EA # | 1490742 |
| FILE | Crosby Hill Mobile Park.dwg |
| DRAWN BY | JRM |
| DATE | FEBRUARY 2019 |
| SCALE | AS SHOWN |

DONALD FRANCIS CONAN II
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW YORK
75669

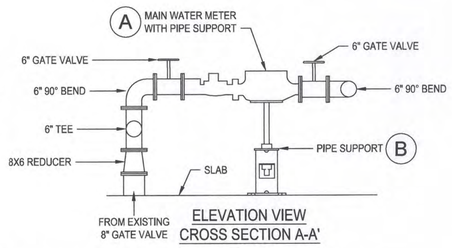
SHEET # 2




PLAN VIEW

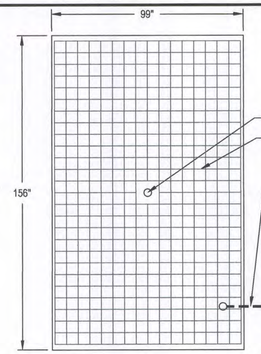



ELEVATION VIEW
CROSS SECTION B-B'

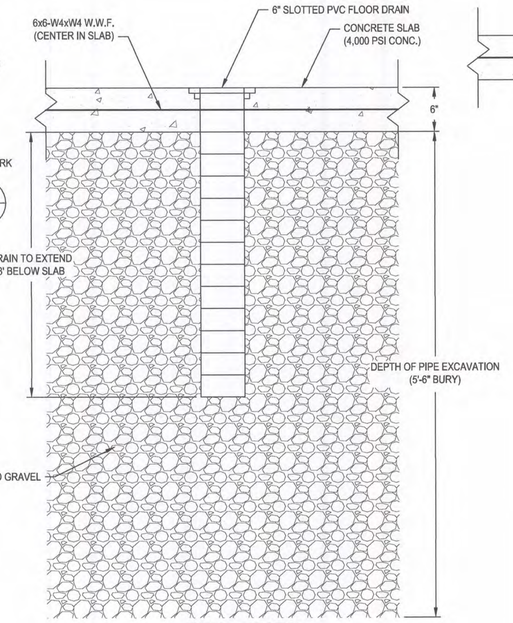



ELEVATION VIEW
CROSS SECTION A-A'

1/2 METER AND BACKFLOW ASSEMBLY DETAIL
NOT TO SCALE

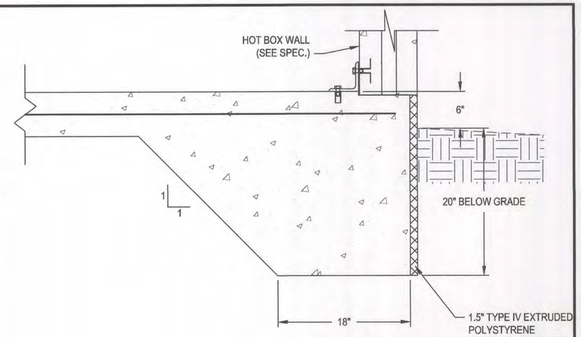



PLAN VIEW

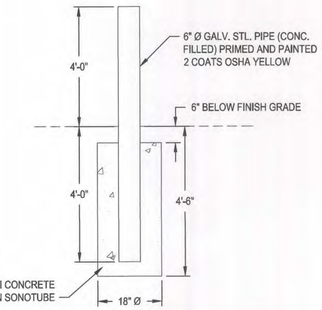



TYPICAL SECTION

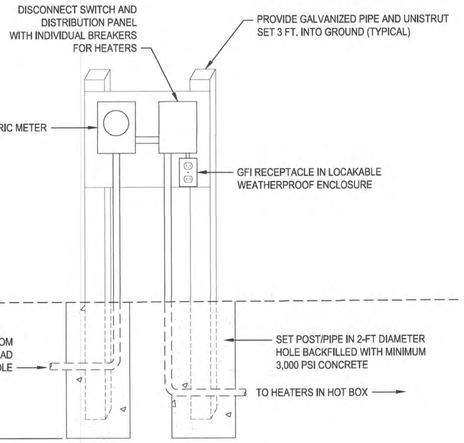
2/2 CONCRETE PAD DETAIL
NOT TO SCALE



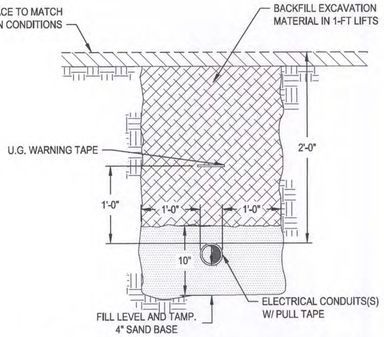

SHALLOW FROST PROTECTED FOUNDATION SECTION



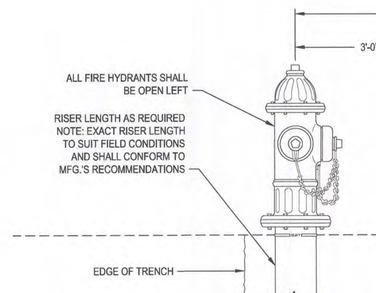

7/2 TYPICAL BOLLARD DETAIL
NOT TO SCALE




3/2 ELECTRIC SERVICE PEDESTAL DETAIL
NOT TO SCALE

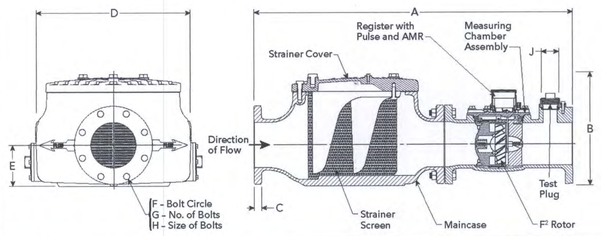



4/2 TYPICAL CONDUIT TRENCH DETAIL
NOT TO SCALE



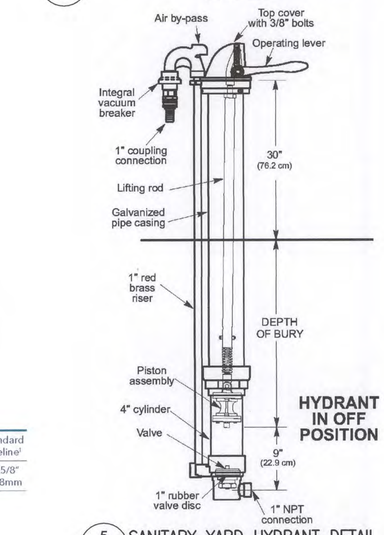

NOTES:
1. MAIN VALVE OPENING SHALL BE 5 ¼".
2. HYDRANT SHALL HAVE TWO 2 ½" HOSE NOZZLES WITH NATIONAL STANDARD THREAD (7 1/2 THREADS/INCH).
3. HYDRANT SHALL HAVE ONE 4 ½" STEAMER NOZZLE WITH NATIONAL STANDARD THREAD.
4. HYDRANT SHALL HAVE A 6" MECHANICAL JOINT INLET CONNECTION.
5. DEPTH OF BURY SHALL BE 5' 6" FROM BOTTOM OF PIPE TO GROUND LINE.
6. COLOR OF HYDRANT SHALL BE COORDINATED WITH THE VOLNEY FIRE DEPARTMENT.
7. THE EXTERIOR OF THE HYDRANTS, FROM THE GROUND LINE UP, SHALL BE PAINTED IN A TWO-COAT SYSTEM. THE FIRST COAT SHALL BE A PRIMER IN A COLOR OTHER THAN THE FINISHED COAT, SO THE PRIMER COAT CAN BE DISTINGUISHED. THE SECOND COAT FOR THE YELLOW PORTION OF THE HYDRANT SHALL BE OF RUSTOLEUM 3400 SYSTEM ENAMEL SAFETY YELLOW, OR EQUAL WHICH IS APPROVED IN WRITING BY OCWA. THE SECOND COAT FOR THE GREEN PORTION OF THE HYDRANT SHALL BE RUSTOLEUM 3400 SYSTEM ENAMEL FOREST GREEN, OR APPROVED EQUAL. THE BID PRICE SHALL INCLUDE 10 GALLONS OF FINAL YELLOW COAT AND 5 GALLONS OF FINAL GREEN COAT.
8. HOSE NOZZLES AND STEAMER NOZZLES SHALL BE EQUIPPED WITH GASKETS AND SAFETY CHAINS.
9. OPERATING NUT ON STEAMER AND HOSE NOZZLE CAPS SHALL OPEN LEFT, AND SHALL BE 1 1/8" TO 1 ½" PENTAGON.
10. HYDRANT SHALL HAVE A BREAKABLE FLANGE TYPE BARREL.

6/2 FIRE HYDRANT DETAIL
NOT TO SCALE
KENNEDY GUARDIAN K81D



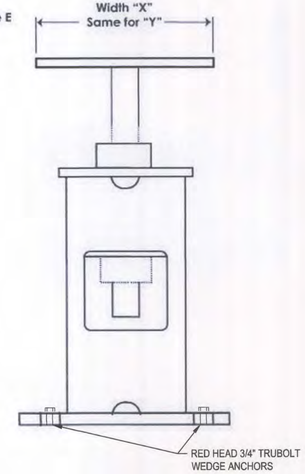

| Meter and Pipe Size | Normal Operating Range | Connections | A | B | C | D | E | F | G | H | J | Net Weight | Shipping Weight | Standard Fireline² |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6" DN 150mm | 3 gpm 2000 gpm .681 m³/hr 454 m³/hr | Flanged | 45" 1143mm | 15-3/4" 400mm | 15/16" 24mm | 22-3/8" 568mm | 5-3/4" 146mm | 9-1/2" 241mm | 8 | 3/4" 19mm | 2" 51mm | 394 lbs. 179 kg. | 449 lbs. 204 kg. | 67-5/8" 1718mm |

A/- 6" MAIN METER DETAIL
NOT TO SCALE
OMNI FIRELINE² (F2) 8" WATER METER
TO BE PROVIDED BY ONONDAGA COUNTY WATER AUTHORITY




HYDRANT IN OFF POSITION

5/2 SANITARY YARD HYDRANT DETAIL
NOT TO SCALE
MURDOCK MODEL M-EXPELO




B/- PIPE SUPPORT DETAIL
NOT TO SCALE
HEARTLAND PIPE SUPPORT SYSTEMS TYPE E

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NEW YORK STATE OF OPPORTUNITY

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REVISIONS

DETAILS I

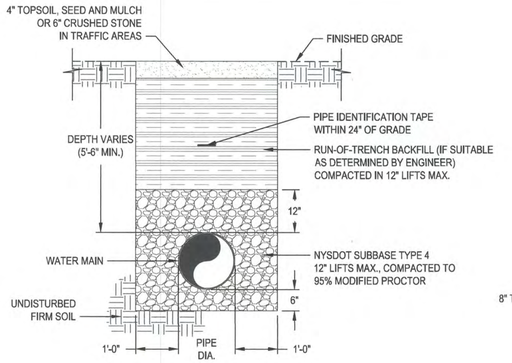
CROSBY HILL MOBILE HOME PARK
WATER DISTRIBUTION SYSTEM DESIGN
2657 STATE ROUTE 3
VOLNEY, OSWEGO COUNTY, NEW YORK

PREPARED BY:
EA ENGINEERING, P.C.
AND ITS AFFILIATE
EA SCIENCE AND
TECHNOLOGY

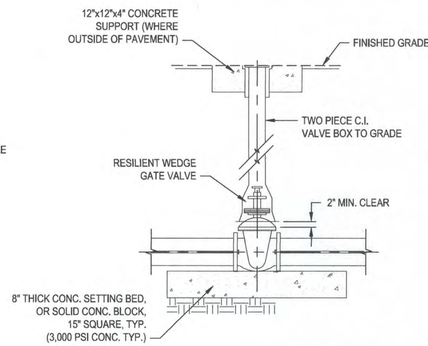
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| EA # | 1490742 |
| FILE | Crosby Hill Mobile Park.dwg |
| DRAWN BY | JRM |
| DATE | FEBRUARY 2019 |
| SCALE | AS SHOWN |

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LICENSED PROFESSIONAL ENGINEER
75665
STATE OF NEW YORK

SHEET # 3

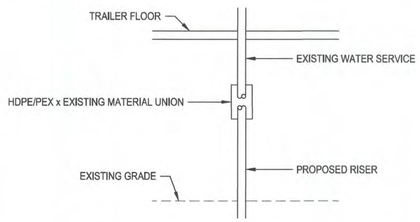



TYPICAL RESTORATION DETAIL
NOT TO SCALE

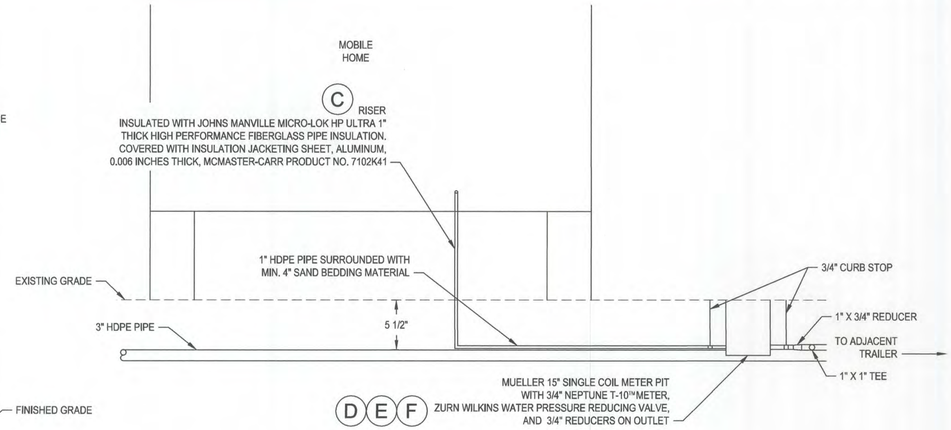



NOTE :
ALL VALVES TO INCLUDE MEGA-LUG RETAINER GLANDS AND BE RODDED BACK TO THE ADJACENT TEE IN THE WATER MAIN. INLINE VALVES NEED NOT BE RODDED. CONTRACTOR TO UTILIZE ¾"Ø GALVANIZED STEEL RODS WITH MALLEABLE IRON NUTS AT 180° SPACING.

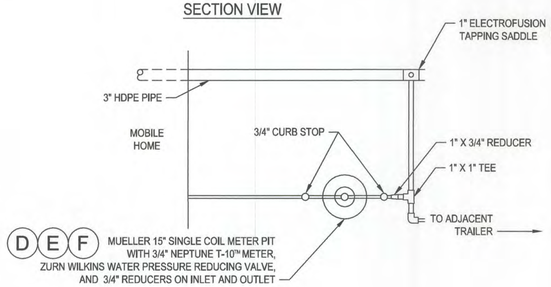
8/2 TYPICAL WATER VALVE DETAIL
NOT TO SCALE



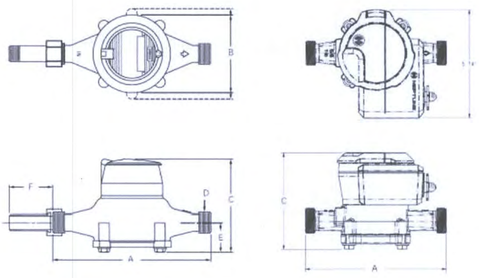

C/- TYPICAL RISER DETAIL
NOT TO SCALE




SECTION VIEW




PLAN VIEW



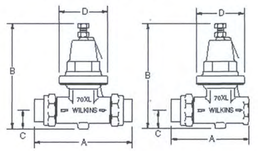




| Meter Size | A in/mm | B in/mm | C-Std. in/mm | C-ARB in/mm | C E-Coder™R900i™ or E-Coder™R450i™ | D Threads per inch | D-OD in/mm | E in/mm | F in/mm | Weight lbs/kg |
|---|---|---|---|---|---|---|---|---|---|---|
| ¾" | 9<br>229 | 4 3/8<br>111 | 5 1/2<br>140 | 6 1/4<br>159 | 6 1/4<br>159 | 11 1/2 | 1.29<br>33 | 1 7/8<br>48 | 2 5/8<br>67 | 6<br>2.7 |
| ¾" SL | 7 1/2<br>911 | 4 3/8<br>111 | 5 1/2<br>140 | 6 1/4<br>159 | 6 1/4<br>159 | 11 1/2 | 1.29<br>33 | 1 7/8<br>48 | 2 5/8<br>67 | 5 1/2<br>2.5 |

D/- 3/4" WATER METER DETAIL
NOT TO SCALE

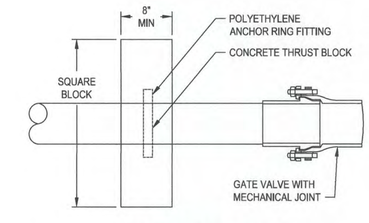
3/4" NEPTUNE T-10™ METER
TO BE PROVIDED BY GES



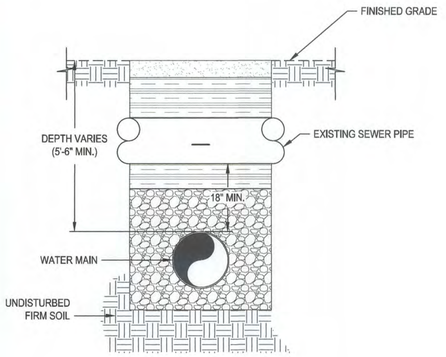

| SIZE | | CONNECTIONS | DIMENSIONS (APPROXIMATE) | | | | | | | | WEIGHT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | | B | | C | | D | | | |
| in. | mm | | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg. |
| 1 | 25 | SINGLE UNION | 5 | 127 | 6 11/16 | 170 | 1 | 25 | 3 3/8 | 86 | 4.1 | 1.9 |
| 1 | 25 | DOUBLE UNION | 5 7/8 | 149 | 6 11/16 | 170 | 1 1/8 | 29 | 3 3/8 | 86 | 4.5 | 2.0 |

E/- WATER PRESSURE REDUCING VALVE DETAIL
NOT TO SCALE
ZURN WILKINS WATER PRESSURE REDUCING VALVE 1" PIPE
(SEE DETAIL NO. 11)

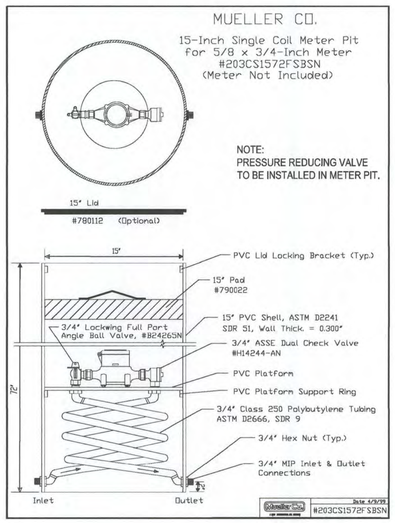
NOTE: PRESSURE RELIEF VALVE - CONTRACTOR SHALL INITIALLY SET PRESSURE RELIEF VALVE AT 30 PSF AND FIELD ADJUST UPON HOOKUP.




11/2 LONGITUDINAL FORCE THRUST BLOCK DETAIL
NOT TO SCALE



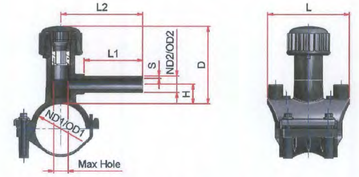

9/2 TYPICAL SEWER CROSSING DETAIL
NOT TO SCALE



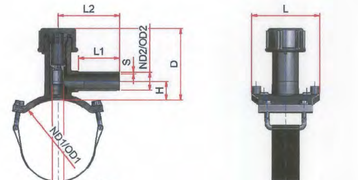

F/- METER PIT DETAIL
NOT TO SCALE
MUELLER 15" SINGLE COIL METER PIT
(SEE DETAIL NO. 11)

10/2 TYPICAL MOBILE HOME CONNECTION DETAIL
NOT TO SCALE

NOTE: CONTRACTOR SHALL INSPECT EACH TRAILER, DETERMINE EXISTING SERVICE PIPE DIAMETER, AND SELECT APPROPRIATE CONNECTION FITTING.




| CODE | ND1 | OD1 | ND2 | OD2 | S | H | L1 | L2 | L | D | Max Hole |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12EIPRES0301C | 3" IPS | 3.500 | 1" CTS | 1.125 | 0.101 | 0.87 | 2.56 | 3.94 | 3.94 | 3.95 | 0.71 |




| CODE | ND1 | OD1 | ND2 | OD2 | S | H | L1 | L2 | L | D | Max Hole |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12EIPRES0834 | 8" IPS | 8.625 | 3/4" IPS | 1.050 | 0.095 | 1.57 | 2.75 | 4.13 | 5.90 | 6.30 | 0.94 |





G/- TAPPING SADDLE DETAILS
NOT TO SCALE
EIOFIT TAPPING TEE
(SEE DETAIL NO. 11)

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Department of Environmental Conservation
NEW YORK STATE OF OPPORTUNITY

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | REVISIONS |

DETAILS II

CROSBY HILL MOBILE HOME PARK
WATER DISTRIBUTION SYSTEM DESIGN
2857 STATE ROUTE 3
VOLNEY, OSWEGO COUNTY, NEW YORK

PREPARED BY:
EA ENGINEERING, P.C.
AND ITS AFFILIATE
EA SCIENCE AND TECHNOLOGY

| | |
|---|---|
| EA # | 1490742 |
| FILE | Crosby Hill Mobile Park.dwg |
| DRAWN BY | JRM |
| DATE | FEBRUARY 2019 |
| SCALE | AS SHOWN |

STATE OF NEW YORK
DONALD FRANCIS CONNELL
LICENSED PROFESSIONAL ENGINEER
75686

SHEET # 4

# Appendix B

## Section 33 05 23.13: Utility Horizontal Directional Drilling

**SECTION 33 05 23.13**
**UTILITY HORIZONTAL DIRECTIONAL DRILLING**

## PART 1 - GENERAL

### SCOPE

The work under this section shall consist of providing all work, materials, labor, equipment, and supervision necessary to complete directional drilling, testing and other work, as required in these specifications, on the drawings, and as otherwise deemed necessary to complete the work. Included are the following topics:

PART 1 - GENERAL
- Scope
- Related Work
- Submittals
- Quality Assurance
- As-Built Documents

PART 2 - MATERIALS
- Polyethylene Resin
- Polyethylene Piping
- Polyethylene Fittings
- Pipe Marking
- Tracer Wire
- Drilling Fluid

PART 3 - EXECUTION
- General
- Excavation, Backfill, and Compaction
- Handling Pipe
- Drilling
- Joining Pipe
- Ream and Pullback

### RELATED WORK

Applicable provisions of Division 1 govern work under this Section.

Section 33 11 00 – Water Utility Distribution Piping

### SUBMITTALS

Submit shop drawings, catalog data, and manufacturer's technical data showing complete information on resin, pipe and fittings material composition, physical properties, and dimensions of the new pipe and fittings. Include manufacturer's recommendations for handling, storage, and repair of pipe and fittings if damaged. Furnish a certificate of compliance with specified pipe material requirements.

Provide written drilling plan outlining proposed equipment and construction methods, including the following:

- Detailed description of the procedures including construction techniques to provide the access required to install the pipeline
- Dimensioned drawings of any proposed changes in the pipe alignment or profile

- Literature describing in detail the drilling system to be used, including drill steering and locating system.
- Certification by the machine manufacturer that the drilling equipment has been successful in installing similar size pipe in similar soil and groundwater conditions.
- Drawings showing: Layout of boring and receiving locations and associated equipment at each location, grade and alignment control system details, groundwater control provision of drilling equipment.
- Calculations demonstrating that the pipe selected has been designed to support the maximum anticipated earth loads and superimposed live loads, static and dynamic, which may be imposed on the pipe. Determine the additional stresses imposed on the pipe during drilling operations and upgrade the quality and strength of the pipe and pipe joints to the extent necessary.
- Certification from the pipe manufacturer that the pipe and pipe joints are manufactured for drilling installation and conform to current specifications.
- Qualifications and experience record of the drilling superintendent and machine operators.
- Drilling fluid generation and management

Provide a directional drilling contingency plan that accounts for the following:

- Unforeseen obstructions that stop or delay the progress of drilling equipment
- Deviation from planned line and grade in excess of allowable tolerances
- Loss of drilling fluid
- Damage to other utilities
- Soil settlement or heaving

Provide a high density polyethylene (HDPE) fusion welding quality assurance plan.

Provide certifications of training by the polyethylene pipe fusing equipment manufacturer(s) stating that the operators of polyethylene fusion equipment have been fully trained in the use of the fusion equipment used on the project.

Provide written copies of quality assurance test results and reports performed by or for the contractor.

Within 48 hours of completing the pilot hole for each run of pipe, provide the log of the drilling operation and guidance system records documenting the line and grade of that pilot hole to the CONTRACTOR. Note the location of any utilities or difficult drilling that was encountered.

**QUALITY ASSURANCE**

Provide additional quality assurance testing as required by applicable utility specification sections.

Provide quality assurance testing for HDPE welding as recommended by the manufacturer.

Pressure Testing:
Conduct tests in accordance with applicable utility specification sections. Allowable leakage for high density polyethylene pipe shall be zero. Testing shall be conducted in the presence of the CONTRACTOR.

Tracer Wire Continuity Testing:
Continuity test shall be conducted using an ohmmeter. Resistance on tracer wire shall be no greater than 105% of the specified resistance of the tracer wire. Testing shall be conducted in the presence of the CONTRACTOR unless this requirement is waived. Provide a written report describing equipment used, test methods, and detailed test results. In the event of a failed test, Contractor shall make all necessary repairs required to provide a tracer wire system that complies with the testing requirements of this section.

Provide additional quality assurance testing as required by applicable utility specification sections.

**AS-BUILT DOCUMENTS**

Provide printed record of actual horizontal and vertical location of installed pipe from borehole survey instrumentation in addition to marked up drawings.

## PART 2 - MATERIALS

**POLYETHYLENE RESIN**

Polyethylene resin used for manufacturing piping and fittings shall meet ASTM D1248 for Type III, Class C, Grade P34, Category 5, with a PPI recommended designation of PE3408 and a minimum cell classification of PE 345434C in accordance with ASTM D3350. The polyethylene compound shall be combined with carbon black to provide protection against degradation by ultraviolet light. Pipe shall be made from virgin material with no rework compound, except that obtained from the manufacturer's own production of the same formulation.

**POLYETHYLENE PIPING**

High density polyethylene (HDPE) piping, shall meet the requirements of AWWA C906, current version. Pipe dimensions and workmanship shall be in accordance with ASTM F714 and ASTM D2122. Pipe shall be of diameter shown on the drawings, with dimension ratio (DR) of DR11, unless otherwise noted.

Pipe, fittings, and joints shall meet or exceed the following physical properties:

| PROPERTY | ASTM TEST METHOD | VALUE |
|---|---|---|
| Density, gm/cc | D1505 | 0.955 |
| Melt Index, gm/10 min | D1238-E | 0.10 |
| High Load Melt Index, gm/10 min | D1238-F | 12.0 |
| Tensile Strength @ Break, psi | D638 | 4,500 |
| Tensile Strength @ Yield, psi | D638 | >3,200 |
| Elongation, % | D638 | >800 |
| Flexural Modulus, psi | D790 | 136,000 |
| Environmental Stress Cracking Resistance $F_{20}$' Hours (100°C) | D1693 (Cond. C) | >5,000 |
| Brittleness Temperature, °F | D746 | <-180 |
| Melting Point, °F | D789 | 261 |
| Vicat Softening Temperature, °F | D1525 | 255 |
| Hardness, Shore D | D2240 | 66 |
| Volume Resistivity, ohm-cm | D991 | $2.6\ 10^{16}$ |
| Recommended Hydrostatic Design Stress: | | 1600 psi @ 73.4°F<br>800 psi @ 140°F |

**POLYETHYLENE FITTINGS**

HDPE fittings manufactured in accordance with ASTM D2683 (socket fused) or ASTM D3261 (butt fused). Fittings shall be supplied by the HDPE piping manufacturer. Butt fusion outlets shall be made to the same dimensional characteristics and tolerances as the mating pipe. All fittings and custom fabrications shall be fully rated for the same internal pressure as the mating pipe. Pressure de-rated fabricated fittings are prohibited.

**PIPE MARKING**

Each length of straight and special pipe and each fitting shall be plainly marked on the outside to identify the design pressure or class of pipe, proper location of the pipe or fitting in the pipeline, and the date of manufacture.

**TRACER WIRE**

Tracer wire shall be #10 stainless steel wire with 45 mil HDPE jacket.

**DRILLING FLUID**

ANSI/NSF 60 (Drinking Water Treatment Chemicals – Health Effects) certified bentonite-based drilling fluid.

## PART 3 - EXECUTION

**GENERAL**

Comply with the requirements of applicable specification sections for the utility line being installed.

Conduct any necessary field surveys, subsurface investigations and geotechnical investigations necessary to complete the work.

Locate all known utilities located adjacent to or crossing the utility line being installed. Excavate to expose utilities prior to initiating drilling and verify applicable clearances. Clearance shall meet applicable code requirements and the requirements of the directional drilling process.

Locate and verify the clearance of known structures and foundations/footings located adjacent to or crossing the utility line being installed.

**EXCAVATION, BACKFILL, AND COMPACTION**

Excavate insertion and receiving pits, and other access points as necessary to complete the work.

**HANDLING PIPE**

Storage and handling of polyethylene pipe shall not result in damage to or deformation of the pipe. Protect polyethylene pipe from long-term exposure to temperature fluctuations and sunlight.

Prepare pipe on a relatively smooth surface, free of sharp rocks, sticks, or debris. Utilize cribbing, pipe stands, rollers, or other equipment as necessary to support the pipe.

Lift and move piping using ropes, slings, or straps. Do not use unprotected chains, hooks, or clamps to lift pipe.

When lifting and moving pipe, provide a minimum of two points of support. Do not support pipes at butt-fused joints.

Sections of pipes with cuts and gouges exceeding 10 percent of the pipe wall thickness or kinked sections shall be removed and rejoined at the Contractor’s expense.

Plug all pipes at end of each workday. Provide a watertight plug to prevent entry of foreign materials into the pipe.

**DRILLING**

Drilling methods shall generally consist of drilling a pilot hole the length of the bore, followed by reaming and pullback of the pipeline. Ream borehole multiple times, as necessary. The equipment and methods used to complete the bore and install piping shall be determined by the Contractor, but subject to the Contract Documents.

The drill staging area shall be kept neat and orderly and disturb as little area as possible. The pipe staging area shall disturb as little area as needed to accommodate workers and equipment, and to string, fuse, and inspect the pipe.

Install all pulleys, rollers, bumpers, alignment control devices and other equipment required to support and protect the new pipe from damage during installation.

Utilize a drilling fluid cleaning/recycling system. Entry and exit pits shall be sized and constructed to completely contain drilling fluid.

Install boring to line and grade shown on drawings. Alignment shall be within tolerances specified in applicable utility specification sections.

Borehole survey instrumentation shall be used to monitor line and grade of the pilot hole. Contractor shall maintain records documenting the line and grade of the pilot hole.

Contractor shall notify the CONTRACTOR upon completion of the pilot hole to observe alignment prior to reaming and pullback.

**JOINING PIPE**

At start of each day, complete fusion weld tests in accordance with manufacturer's recommendations to verify that fusion equipment is operating properly.

Polyethylene pipe ends shall be joined using butt fusion methods. Join polyethylene pipe to polyethylene fittings using butt fusion or socket or saddle fusion methods. Fusion methods shall comply with both pipe and fusion equipment manufacturers' requirements and ASTM F2620.

The tensile strength at yield of the butt-fusion joints shall not be less than the pipe. A specimen of pipe cut across the butt-fusion joints shall be tested in accordance with ASTM D638.

Join polyethylene pipe to mechanical joint or flanged fittings in accordance with both fitting and pipe manufacturers' requirements. Provide HDPE pipe stiffeners, wedge type retainer glands, and clamp type joint restraint system.

Connect terminal sections of pipe that are joined within excavations with electrofusion couplings. Couplings shall be as manufactured by Integrity Fusion Products, Inc., or equal.

**REAM AND PULLBACK**

Pilot hole shall be back-reamed to accommodate pipe. Contractor shall select the reamer size and number of passes required.

Pull pipe back using swivel to prevent torsion of pipe.

Monitor tension forces on pipe during pullback. Do not exceed maximum stresses recommended by the pipe supplier.

Support pipeline during pullback operations. Provide supports/rollers in accordance with manufacturer's recommendations. Supports and rollers shall allow for free movement of the pipeline and prevent damage to the pipe.

Use a drilling fluid in conjunction with the installation of the pipe to fill the annular space around the installed pipeline. The Contractor shall be responsible for determining the type of fluid to use, and for properly disposing of all excess drilling fluid and slurry material recovered from the hole during drilling operations and displaced by the pipe during installation.

Install tracer wire during pullback operations. Extend tracer wire to end of pipe and secure. Test continuity of the tracer wire prior to demobilizing.

Allow the manufacturer's recommended amount of time for cooling and relaxation due to tensile stressing prior to connecting pipe to adjacent pipe sections, fittings, or structures, or backfilling of the insertion pit. Provide sufficient excess length of new pipe at insertion pits to allow for cooling and relaxation.

**END OF SECTION**

# Appendix C

## Section 33 11 00: Water Utility Distribution Piping and Appurtenances

**SECTION 33 11 00**
**WATER UTILITY DISTRIBUTION PIPING AND APPURTENANCES**

## PART 1 - GENERAL

### SCOPE

The work under this section shall consist of providing all work, materials, labor, equipment, and supervision necessary to provide water distribution system components and other work, as required in these specifications, on the drawings and as otherwise deemed necessary to complete the work. Included are the following topics:

PART 1 - GENERAL
- Scope
- Related Work
- Reference Documents
- Reference Standards
- Submittals
- Continuity of Existing Water Distribution System

PART 2 - MATERIALS
- Ductile Iron Watermain
- HDPE Watermain
- Ductile Iron Watermain Fittings
- Polyethylene Fittings
- Valves
- Brass Water Service Fittings
- Valve Boxes
- Hydrants
- Joint Restraints
- Polyethylene Encasement Bag
- Board Insulation
- Tracer Wire
- Locator Tape
- Chlorine
- Pipe Joint Lubricant

PART 3 - EXECUTION
- General
- Connections to Existing Mains/Tapping
- Bedding /Utility Cover
- Laying Watermain
- Tracer Wire
- Locator Tape
- Fittings, Valves and Hydrants
- Joint Restraint
- Filling Watermain
- Pressure Testing
- Disinfection/Flushing
- Bacteriological Sample

### RELATED WORK

Related work specified elsewhere:
Section 33 05 23.13 – Utility Horizontal Directional Drilling

**REFERENCE DOCUMENTS**

Where reference is made to the "10 State Standards", it shall mean pertinent sections of the Recommended Standards for Water Works by the Great Lakes - Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers, current edition.

**REFERENCE STANDARDS**

American Society for Testing and Materials (ASTM):

| | |
|---|---|
| F477 | Standard Specifications for Elastomeric Gaskets for Joining Plastic Pipe |
| D3139 | Standard Specifications for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals |
| D3350 | Standard Specifications for Polyethylene Plastic Pipe and Fittings Materials |
| F2164 | Standard Practice for Field Leak Testing of Polyethylene (PE) and Crosslinked Polyethylene (PEX) Pressure Piping Systems Using Hydrostatic Pressure |

American Water Works Association (AWWA):

| | |
|---|---|
| C502 | Dry Barrel Fire Hydrants |
| C509 | Resilient-Seated Gate Valves for Water Supply Service |
| C515 | Reduced Wall, Resilient Seated Gate Valves for Water Supply Service |
| C550 | Protective Epoxy Interior Coatings for Valves and Hydrants |
| C800 | Underground Service Line Valves and Fittings |
| C900 | Polyvinyl Chloride (PVC) Pressure Pipe, and Fabricated Fittings for Water Distribution (4"-12") |
| C901 | Polyethylene (PE) Pressure Pipe and Tubing (¾"-3") |
| C906 | Polyethylene Pressure Pipe, and Fabricated Fittings for Water Distribution (4"-63") |
| C104/ANSI A21.4 | Standard for Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water |
| C105/ANSI A21.5 | Standard for Polyethylene Encasement for Ductile-Iron Pipe Systems |
| C111/ANSI A21.11 | Standard for Rubber-Gasket Joints for Ductile Iron Pressure Pipe and Fittings |
| C151/ANSI A21.51 | Standard for Ductile Iron Pipe, Centrifugally Cast |
| C153/ANSI A21.53 | Standard for Ductile Iron Compact Fittings |

**SUBMITTALS**

Provide manufacturers product information (cut sheets) and O&M information for watermain materials including:

- Pipe
- Fittings
- Valves
- Hydrants (Fire and Flushing)
- Joint Restraint Materials
- Meter pits
- Backflow Prevention Device
- Hot Box

Provide copies of all pressure and electric continuity testing procedures and results for the project to GES within 48 hours of completing the individual tests.

Provide reports that document safe sample collection procedures and results.

**CONTINUITY OF EXISTING WATER DISTRIBUTION SYSTEM**

Provide a construction schedule to GES for review and approval prior to starting construction. Schedule shall indicate the date and time of all required water supply interruptions.

Do not interrupt existing water supply without approval from the GES.

Once approved, notify all mobile home park residents impacted by outages a minimum of 48 hours in advance of outage. Notification shall be provided in writing and describe the nature and duration of outages, and provide the name and number of Contractor's foreman or other contact.

## PART 2 - MATERIALS

**DUCTILE IRON WATERMAIN**

Ductile watermain shall be Class 52, ANSI/AWWA C151/A21.51centrifugally cast, cement mortar lined meeting the requirements of ANSI/AWWA C104/A21.4.

Ductile iron watermain joints shall be rubber gasket push-on joint or mechanical joint meeting the requirements of ANSI/AWWA C111/A21.11.

Pipe shall be provided with conductive bonding straps to provide electrical continuity.

Pipe shall be manufactured in the United States.

**HDPE WATERMAIN**

Polyethylene Resin
Polyethylene resin used for manufacturing piping and fittings shall meet ASTM D1248 for Type III, Class C, Grade P34, Category 5, with a PPI recommended designation of PE3408 and a minimum cell classification of PE 345434C in accordance with ASTM D3350. The polyethylene compound shall be combined with carbon black to provide protection against degradation by ultraviolet light. Pipe shall be made from virgin material with no rework compound, except that obtained from the manufacturer's own production of the same formulation.

Polyethylene Piping
High density polyethylene (HDPE) piping in ductile iron pipe size (DIPS), shall meet the requirements of AWWA C906, current version. Pipe dimensions and workmanship shall be in accordance with ASTM F714 and ASTM D2122. Pipe shall be of diameter shown on the drawings, with dimension ratio (DR) of DR11, unless otherwise noted.

Pipe, fittings, and joints shall meet or exceed the following physical properties:

| PROPERTY | ASTM TEST METHOD | VALUE |
|---|---|---|
| Density, gm/cc | D1505 | 0.955 |
| Melt Index, gm/10 min | D1238-E | 0.10 |
| High Load Melt Index, gm/10 min | D1238-F | 12.0 |
| Tensile Strength @ Break, psi | D638 | 4,500 |
| Tensile Strength @ Yield, psi | D638 | >3,200 |
| Elongation, % | D638 | >800 |
| Flexural Modulus, psi | D790 | 136,000 |
| Environmental Stress Cracking Resistance $F_{20}$' Hours (100°C) | D1693 (Cond. C) | >5,000 |
| Brittleness Temperature, °F | D746 | <-180 |
| Melting Point, °F | D789 | 261 |
| Vicat Softening Temperature, °F | D1525 | 255 |
| Hardness, Shore D | D2240 | 66 |
| Volume Resistivity, ohm-cm | D991 | 2.6 $10^{16}$ |
| Recommended Hydrostatic Design Stress: | | 1600 psi @ 73.4°F<br>800 psi @ 140°F |

Pipe Marking
Each length of straight and special HDPE pipe and each HDPE fitting shall be plainly marked on the outside to identify the design pressure or class of pipe, proper location of the pipe or fitting in the pipeline, and the date of manufacture.

**DUCTILE IRON WATERMAIN FITTINGS**

Fittings shall be ductile iron cement mortar lined mechanical joint compact style fittings meeting the requirements of ANSI/AWWA C153/A21.53.

Fittings shall be manufactured in the United States.

**POLYETHYLENE FITTINGS**

HDPE fittings manufactured in accordance with ASTM D2683 (socket fused) or ASTM D3261 (butt fused). Fittings shall be supplied by the HDPE piping manufacturer. Butt fusion outlets shall be made to the same dimensional characteristics and tolerances as the mating pipe. All fittings and custom fabrications shall be fully rated for the same internal pressure as the mating pipe. Pressure de-rated fabricated fittings are prohibited.

**VALVES**

Resilient Wedge Gate Valve
Resilient seated wedge gate valve meeting the requirements of AWWA C509 and C515. Body, bonnet and gate shall be constructed of ductile iron. Bolts shall be 304 stainless steel.

Interior and exterior surfaces of valve shall be provided with epoxy coating meeting the requirements of AWWA C550. Symmetrical wedge shall be completely encapsulated with resilient material.

Valve stem shall be non-rising, low-zinc (zinc content not to exceed 6%) bronze. Valve stem shall have an integral thrust collar. Thrust collar bearings shall be designed to withstand maximum torque without distortion.

Stem seal shall be so designed that the O – ring above the stem collar can be replaced while the valve is under pressure and in the fully open position.

Valve shall be left opening and be provided with standard 2" square operating nut.

Valve shall be provided with mechanical joint connections. Mechanical joint ends shall conform to AWWA C509 and shall be furnished complete with all mechanical joint accessories including approved M.J. bolts and nuts. Glands shall be full body gray iron or ductile iron. Mechanical joint bells, glands and rubber gaskets shall be in accordance with AWWA C111.

Mueller, Kennedy, US Pipe, American Flow Control, Clow, or approved equal.

Tapping Valve
EloFit Electrofusion Tapping Tee manufactured in accordance with ASTM F-1055 for use with pipe conforming to ASTM D3035, F-714 with butt fittings conforming to ASTM D3261 as applicable. Fittings to be made with PE100/PE4710 Resin. Made with pre-blended virgin resin with a PPI listing and complies with ASTM D3350. Must meet AWWA C901 and/or AWWA C906. Resin must be certified to NSF Standard 61 for use with potable water.

Valve shall be left opening.

EloFit by Nupi Americas or approved equal.

**BRASS WATER SERVICE FITTINGS**

Curb Stops
Curb stops shall be brass, with compression connections having a positive indicator to avoid over-tightening. Curb stops shall be provided with a quarter turn check.

Curb stops shall be Mueller H15209N, or approved equal.

Unions
Unions shall be 3-piece brass, with compression connections having a positive indicator to avoid over-tightening. Installations shall incorporate full lengths of service pipe to the extent possible and to minimize the use of unions.

Unions shall be Mueller H-15403N, or approved equal.

U-Branch, Wyes, Etc.
U-branch, wye and other fittings shall be brass, with compression connections having a positive indicator to avoid over-tightening. Fittings shall be produced specifically for water supply applications.

Mueller or approved equal.

**VALVE BOXES**

Gate Valve Boxes
Valve boxes shall be screw type and shall consist of a base, middle section, top section with cover and intermediate extension sections. The top section shall be designed to thread onto the middle section so that the unit can be adjusted to a variable length. The top section shall be designed to receive a circular drop cover.

The valve box and component parts shall be cast iron in accordance with ASTM-A48 class 20, 30, 35, or approved equal.

Boxes shall be 5-1/4" with stay-put "WATER" cover.

The cast iron valve box and components shall be free from blowholes, cold shots, shrinkage defects, cracks or other injurious defects and shall have a normal smooth casting finish.

All cast iron valve boxes and components shall be thoroughly coated with asphaltic pitch varnish or approved equal.

Provide valve box extensions as necessary to accommodate depth of cover shown on drawings, or 5.5-foot minimum.

Valve boxes shall be Star ® Pipe Products or approved equal.

Curb Stop Boxes
Curb stop boxes shall be 1 1/4" minimum diameter, cast iron, arch style, valve boxes. Boxes shall be telescopic, extendable to accommodate 7' bury. Lid shall be Buffalo pattern.

Provide valve box extensions as necessary to accommodate depth of cover shown on drawings, or 6.5-foot minimum.

Ford, Mueller, or approved equal.

**HYDRANTS**

Fire hydrants shall be dry-bury type meeting the requirements of AWWA C110, C111, and C502 and manufacturer's most recent improved design. Hydrants shall be listed by Underwriters Laboratory and approved by Factory Mutual for the fire line service. All working parts shall be removable without excavation.

Hydrants shall be ductile iron, 250 psi rated working pressure.

Hydrants shall be traffic rated as specified in AWWA C502.

Hydrants shall be provided with the following features:
- 5.5' bury
- 6" mechanical joint inlet with accessories
- 5 ¼" main valve opening, true compression type, opening against and closing with water pressure
- One 4 ½" steamer nozzle with National Standard Threads
- Two 2 ½" hose nozzles with either Syracuse Standard Thread (8 threads/inch) or National Standard Thread (7.5 threads/inch)
- Nozzles with gaskets and caps with chains
- 1-1/8" to 1-1/2" pentagon operating nut on steamer and hose nozzle caps, open counter-clockwise, conforming to AWWA C502. Material of the operating nut shall be either hardened bronze or ductile iron.
- Breakable flange type barrel
- Painting shall be coordinated with Volney Fire Department and in accordance with AWWA C502.
- Marker flag (Pollardwater or approved equal)

The exterior of the hydrants, from the ground line up, shall be painted in a two-coat system. The first coat shall be a primer in a color other than the finished coat, so the primer coat can be distinguished. The second coat for the yellow portion of the hydrant shall be of Rustoleum 3400 system enamel Safety Yellow, or equal which is approved in writing by OCWA and the local fire department. The second coat for the green portion of the hydrant shall be Rustoleum 3400 system enamel Forest Green or approved equal. The bid price shall include 10 gallons of final yellow coat and 5 gallons of final green coat.

All extensions shall be made for insertion below the breakable flange. Extensions shall be made from the same material as that of the barrel. The hydrant must be designed to allow the use of barrel extension kits, which allow the raising of the hydrant to a new grade while retaining the "Safety Coupling and Breakable Flange" traffic collision feature at the new grade. Extension kits are to be in 6" increments, with the shortest being 6" long.

All nozzles shall be at the same elevation. Nozzle shall be capable of being threaded into the upper barrel and shall be mechanically locked in place. The distance from the base of the operating nut to the center of the pumper nozzle shall not be less than 7-1/8". The distance between the ground and the center of the pumper nozzle shall not be less than 15 inches nominal dimension.

Fire Hydrant shall be Kennedy Guardian K81D. Flushing Hydrants shall be Murdock Model M-Expelo, sanitary yard hydrant.

**JOINT RESTRAINTS**

Retainer Glands for Ductile Iron Pipe
Ductile iron wedge action retainer glands designed for use with ductile iron pipe.

Restraint shall be provided by a minimum of three wedges that are tightened onto the exterior of the pipe using a threaded, torque limiting mechanism.

Glands shall be tested to provide restraint at 250 psi operating pressure.

EBAA Iron, Mueller AquaGrip, Romac Romagrip, or approved equal.

**POLYETHYLENE ENCASEMENT BAG**

8-mil polyethylene encasement bag meeting the requirements of ANSI/AWWA C105/A21.5, Class "C" black.

**BOARD INSULATION**

Insulation shall be rigid, closed-cell extruded polystyrene insulation suitable for buried installation. Individual boards shall have minimum dimensions of 8'x4'x2".

Owens Corning, Dow Styrofoam, or approved equal.

**TRACER WIRE**

Tracer wire shall be #10 solid copper wire with insulated jacket. Tracer wire insulation color for non-metallic, potable water pipe shall be blue.

**LOCATOR TAPE**

Tape shall be detectable metallic locator tape, specifically manufactured for marking utilities with a minimum width of 6 inches and detectable at a depth of 18".

Tape for potable water shall be marked "WATER" and blue colored.

**CHLORINE**

Calcium hypochlorite product shall meet requirements for AWWA C651 – Standard for Disinfecting Water Mains - latest revision.

Arch “HTH” or approved equal.

**PIPE JOINT LUBRICANT**

Petroleum free pipe lubricant formulated for use with potable water systems. Product shall meet the requirements of ANSI/AWWA C111/A21.11 - latest revision.

## PART 3 - EXECUTION

**GENERAL**

Contractor shall notify Dig Safely Prior to commencing intrusive work. Complete exploratory excavations at utility crossings as shown on the drawings and as necessary to complete the work in accordance with all applicable laws and local standards.

Maintain clearances between watermains and existing or proposed sewer lines as follows:

- 10’ horizontal separation (measured from outside of pipes) between watermains and existing or proposed sanitary or storm sewers.
- 18” vertical separation (measured from outsides of pipes) where watermains cross under or over sanitary or storm sewers.

Notify GES of utility conflicts as soon as they are encountered.

Store and handle pipe in accordance with manufacturers’ recommendations. Keep pipes clean of soil, debris and animals.

Watermain construction shall be completed in a manner that minimizes interruptions to existing services.

**CONNECTIONS TO EXISTING WATERMAINS/TAPPING**

Connections shall be made at existing valve.

**BEDDING /UTILITY COVER**

When installed via open trench, provide bedding and utility cover in accordance with the design drawings.

Watermain and water service piping shall be provided with 6” of bedding material and 12” of utility cover material (both measured at the bell of the pipe).

Bedding and cover material for various types of pipe shall consist of NYSDOT Subbase Type 4 compacted to 95% modified proctor.

**LAYING WATERMAIN**

Install pipe in accordance with the AWWA standards and ASTM specifications that pertain to the specified type of pipe material and the installation situation. Directional drilling shall be per Section 33 05 23.13 UTILITY HORIZONTAL DIRECTIONAL DRILLING.

Provide a minimum of 5.5’ of cover over watermain, unless otherwise shown on the drawings or directed by GES. For watermains with less than 5.5’ of cover, provide insulation as shown on the drawings, or as directed by GES.

Lay watermain at near uniform grades, except near existing utilities to meet required clearances.

Unless otherwise shown or approved by GES, lay pipe with bell end facing the direction of pipe laying.

For ductile iron watermain, place polyethylene encasement bag on watermain prior to lowering into trench. Once pipe is joined, pull bag over entire length of pipe, overlap joint at adjacent pipe and secure using "Duct" tape or other approved method.

Prepare pipe bell and gasket in accordance with manufacturers requirements. Lubricate bell and/or pipe with AWWA/NSF approved lubricant.

Push pipe home in accordance with manufacturer's recommendations regarding tools and methods.

Pipe joint deflection shall not exceed manufacturer's requirements.

For ductile iron pipe, connect bonding straps or lugs to provide electrical continuity along entire watermain. Provide exothermic weld to attach new bonding straps, when existing straps are missing or damaged. Follow manufacturer's requirements for exothermic welding procedures.

Locate the geographic location of all dead end watermains and services and note actual location on As-Built Drawings.

**TRACER WIRE**

Provide tracer wire for buried non-metallic water piping. Tracer wire shall be installed with all directionally drilled pipe or directly above/6 inches within the top of pipe laid in excavations.

Tracer wire shall be continuous; however, if necessary and approved by GES, splices in tracer wire shall be made with split-bolt or compression-type connectors.

Access points are required every 400 feet, as indicated on the design drawings or directed by GES. At access points the tracer wire shall be brought to grade in valve boxes, utility structures, or other covered access devices (e.g. Rhino TriView or approved equal).

**LOCATOR TAPE**

Install locator tape directly above new non-metallic pipe approximately 15 inches below finished grade. Bring tape to surface and terminate in valve box or other structure.

**FITTINGS, VALVES AND HYDRANTS**

Install fittings, valves and hydrants at locations shown on the drawings.

Unless otherwise shown, provide restrained mechanical joint connections. Install materials in accordance with manufacturer's recommendations.

Maintain electrical continuity through all fittings, valves and hydrants. Provide and install suitable jumper cables for epoxy coated valves.

Place hydrants and valves on solid concrete masonry units set on compacted soil as shown on the design drawings.

Install joint restraints in accordance with the requirements of this section.

Install valve box so that bonnet rests on compacted initial backfill material at the same elevation as the top of the valve stuffing box. Center the valve box over the valve nut.

Install valve box plumb and level, backfilling evenly. Extend valve box to proposed final grade; provide valve box extensions as necessary. Valve boxes that shift during backfilling or restoration shall be excavated and re-set.

Mark all valve boxes with a steel "U" fence post to protect them from damage.

Install hydrants at elevation shown on drawings or as required to provide a minimum of 5.5' cover over the hydrant lead.

Place approximately ½ cy of clean stone bedding material from the base of the hydrant to 6" above the drain holes on the hydrant elbow. Cover clear stone material with a "skirt" of geotextile material to prevent backfill material from migrating into the clean stone.

Install hydrant plumb and level, backfilling all sides evenly.

Cover all new hydrants with a plastic garbage bag or similar cover until the main has been filled and placed in service.

Fire hydrant shall be field tested in accordance with AWWA M17 and NFPA 291-2019 after installation.

**JOINT RESTRAINT**

Unless otherwise noted, all fittings, valves and hydrants shall be installed with restrained joints. Joint restraints shall be used on the adjacent full length (or more lengths as shown on the drawings) of pipe on all sides of fittings. Additionally, branch runs of pipe shall be installed with restrained joints beginning at the fitting at the main to the first valve.

Hydrant leads shall be provided with restrained joints beginning at the fitting at the main to the hydrant.

Joint restraint shall be provided using retainer glands.

Install all joint restraint products in accordance with manufacturer's recommendations and drawings.

**FILLING WATERMAIN**

Fill watermain after main has been installed and completely backfilled.

Fill main slowly to limit entrapped air and evenly distribute calcium hypochlorite. Open all curb stops and hydrants completely to allow air to escape and monitor filling.

Once main is full, allow a minimum of 48 hours of time for disinfection to occur before flushing.

**PRESSURE TESTING**

Contractor shall be responsible for acquiring all water needed to pressure test, disinfect and flush main lines as required.

Pressure test all watermain and water services in accordance with ASTM F2164.

Provide all valves, fittings, joint restraints, hoses, compressors, water and power supply as necessary to complete pressure testing. Utilize testing apparatus that is fabricated specifically for testing watermains. Calibrate pressure gauges as necessary.

Flush main as necessary to remove air prior to testing. Comply with the requirements of this section with respect to flushing.

All pressure testing shall be conducted in the presence of GES. Provide minimum of 48 hours advanced notice of testing.

Conduct a combined pressure/leakage test for 1 hour at a pressure equal to 150% of system normal operating pressure (as measured at the lowest point in the system), or a minimum pressure of 150 psig.

When conducting test, pressure test equipment shall be set-up as close to the highest point in the line as possible.

Make-up water for the test shall be clean potable water supplemented with ½ oz of dry calcium hypochlorite per 35 gallons of water.

Leakage for test shall not exceed gallons per hour as allowed by the attached formula:

$$G=(ND\sqrt{P})/7400$$

Where: G= Allowable leakage (gallons per hour of test)
N=Number of joints under test
D=Nominal diameter of main (inches)
P=Average pressure during test (psig)

Record and document pressure test by recording the following information:

- Date of test
- Section tested
- Diameter and length of main under test
- Number of fittings, valves hydrants, etc.
- Results of test including test length, pressure, actual water loss
- Calculation of allowable leakage
- If a failed test, describe actions taken to eliminate leaks and results of re-testing

Submit reports documenting pressure testing.

**DISINFECTION/FLUSHING**

Disinfection shall be conducted in accordance with AWWA C651/C901-17/C906-15. After filling the main, allow a minimum of 48 hours of time for disinfection to occur before flushing.

Flush all sections of watermain and water service. When possible, utilize hydrants or other large diameter orifices to complete flushing and achieve 2.5 fps water velocity. If needed, utilize services or temporary connections to complete flushing.

All watermain and services shall be flushed for a minimum of 10 minutes, or as necessary to obtain a sediment-free and bacteriologically safe sample.

Utilize diffusers, hoses, settling basins and other devices as necessary to limit erosion and other damage to the site and downstream areas.

Contractor shall be responsible for providing all necessary fittings, valves, joint restraints, hydrants and other materials necessary to conduct flushing.

Submit reports documenting disinfection and flushing.

**BACTERIOLOGICAL SAMPLE**

Following all pressure testing and flushing, the contractor shall collect two samples from the newly installed watermain or water service(s). The first sample shall be collected after 24 hours of disinfection, and the second sample shall be collected after 48 hours of disinfection. Samples shall be submitted to a licensed testing laboratory for bacteriological (coliform bacteria) analysis.

The Contractor shall be responsible for all costs associated with sample collection(s) and analysis.

Document bacteriological sample collection and analysis by recording the following information:

- Date of sample collection
- Sample collection methods and equipment
- Person collecting the sample
- Location(s) sample was collected
- Results of sample analysis

If sample results indicate water is "Unsafe – Coliform Bacteria Present", Contractor shall re-disinfect watermain and water services by introducing additional chlorine into the line and re-flushing the main. This process shall be repeated as necessary until a clean sample is obtained. The Contractor shall be responsible for all costs associated with all efforts necessary to obtain a "Safe – Coliform Bacteria Not Present" sample.

Submit reports documenting bacteriological sample collection and analysis to GES.

No watermains shall be placed into service until authorized to do so by GES.

**END OF SECTION**

# Appendix D

## Bid Sheet

**Bid Sheet**

| | | | |
|---|---|---|---|
| **Client:** | NYSDEC / GES | **Date:** | 5/20/2019 |
| **Project Name:** | Crosby Mobile Home Park | **Project Manager:** | David Chiusano |
| **Project Number:** | | **Bidder** | |
| | | **Company Name:** | |
| | | **Address:** | |
| | | **Email Address:** | |
| | | **Point of Contact:** | |
| | | **Phone Number:** | |
| | | **Date Quote Received:** | |
| | | **Subcontract Type:** | |
| | | **Bus. Size:** | |

| Bid Item No. | Qty | Description | Unit of Measure | Unit Price | Item Price |
|---|---|---|---|---|---|
| 1 | 1 | Mobilization/Demobilization | Lump Sum | NA | |
| 2 | 1 | Furnish & Install 8-inch Backflow Preventer | each | | |
| 3 | 1 | Construction of above grade slab and enclosure (Hot Box) for Backflow Preventor and Main Meter. | Lump Sum | | |
| 4 | 1 | Furnish & Install Electrical Service for Hot Box 1Ø/240V/100amp | each | | |
| 5 | 1 | Furnish & Install Fire Hydrant with 6-inch Gate Valve, marker flag, necessary reducers and appurtenances | each | | |
| 6 | 1 | Install Main 6-inch meter (to be furnished by Onondaga Water County Authority) and pipe support | each | | |
| 7 | 50 | Exploratory Excavations | Cubic Yard | | |
| 8 | 10 | Tree Cutting and Disposal at direction of Contractor | each | | |
| 9 | 20 | Furnish & Install 6-inch Ductile Iron Water Main (fire hydrant lateral and in hot box) and appurtenances; tees, bends, reducers, gaskets, hardware, bedding material, and retainers for complete and approved installation | Linear Foot | | |
| 10 | 3 | Furnish & Install 6-inch Gate Valves and appurtenances | each | | |

| Bid Sheet | | | | | |
|---|---|---|---|---|---|
| **Client:** | | NYSDEC / GES | **Date:** | 5/20/2019 | |
| **Project Name:** | | Crosby Mobile Home Park | **Project Manager:** | David Chiusano | |
| 11 | 3 | Furnish & Install 8-inch X 6-inch Ductile Iron Reducer Fitting | each | | |
| 12 | 65 | Furnish & Install 8-inch Ductile Iron Water Main with locator tape (20 ft) including tees, bends, reducers, other necessary fittings, and bedding material for complete and approved installation | Linear Foot | | |
| 13 | 3 | Furnish & Install 8-inch Gate Valves | each | | |
| 14 | 650 | Furnish & Install 8-inch HDPE Water Main with tracer wire via directional drilling/open cut; item includes excavation for drilling, bedding material, locator tape, tees, bends, and reducers for open cut | Linear Foot | | |
| 15 | 6 | Furnish & Install 8"x1" tapping saddle | each | | |
| 16 | 2,700 | Furnish & Install 3-inch HDPE Water Main with tracer wire and fittings via directional drilling/open cut; item includes excavation for drilling, bedding material, locator tape, tees, bends, and reducers for open cut | Linear Foot | | |
| 17 | 5 | Furnish & Install 3-inch Gate Valve | each | | |
| 18 | 32 | Furnish & Install 3-inch HDPE Fittings - 3"x1" tapping saddle | each | | |
| 19 | 1,425 | Furnish & Install 1-inch service lines and tees, bends, and reducers; includes open trenching, pipe bedding material, backfilling, and compacting | Linear Foot | | |
| 20 | 67 | Install 3/4" meter (provided by GES) | each | | |
| 21 | 64 | Furnish & install meter pit | each | | |
| 22 | 67 | Furnish & install pressure reducing valve | each | | |
| 23 | 134 | Furnish & install 1" curb stops | each | | |
| 24 | 1 | Furnish & install Flush hydrant with marker flag | each | | |

**Bid Sheet**

| | | | | | |
|---|---|---|---|---|---|
| **Client:** | | NYSDEC / GES | **Date:** | 5/20/2019 | |
| **Project Name:** | | Crosby Mobile Home Park | **Project Manager:** | David Chiusano | |
| 25 | 1 | Pressure Test Distribution System; to be paid upon successful completion. *Minimum bid price $1.75/LF* | Lump Sum | | |
| 26 | 1 | Disinfect/Flush Distribution System | Lump Sum | | |
| 27 | 2 | Bacteriological Sample collection and analysis | each | | |
| 28 | 1,500 | Restoration: Furnish and place topsoil, seed and mulch, 4" thick | Square Yards | | |
| 29 | 275 | Restoration: Furnish and place gravel drives/walks, 6" thick | Square Yards | | |
| 30 | (unknown) | Non-hazardous soil or mud transport and disposal. (manifests required for invoice back-up) | Cubic Yard | | |
| 31 | (unknown) | Non-hazardous drilling fluid transport and disposal. (manifests required for invoice back-up) | Gallon | | |
| 32 | (as needed) | Backfill material. (delivery tickets required for invoice back-up) | Cubic Yard | | |
| 33 | (if needed - 1 unit to be billed) | Mobilize/demobilize dewatering equipment (pumps, hoses, frac tank). | Lump Sum | | |
| 34 | (as needed) | Dewatering equipment use - Weekly Rate | Weekly Usage Rate | | |
| 35 | (as needed) | Dewatering coordination/labor/time delay unit. | per gallon pumped | | |
| 36 | (as needed) | Snow Clearing via mechanical means (Hourly rate, with an 8-hr maximum per day) | Hourly Rate | | |
| | | | **TOTAL COST:** | | **0.00** |

***Remarks: Mobilization shall include all incidentials required to complete the scope of work. Incidentials shall include perdiems, support trucks and other necessary equipment.***

| | |
|---|---|
| **Signature & Date:** | |

# Appendix E

## Bid Details, Exclusions/Assumptions

## Appendix E

## Bid Details, Exclusions/Assumptions

Company Name: _____

Date: _____

**Time Frame:** Please provide anticipated start-date. _____

Please provide anticipated number of weeks on-site to complete work. _____
*Gantt chart to be submitted with your bid.*

* If you feel that an activity that you will be performing is not captured in one of the rates/units included on the Bid Sheet (**Appendix D**), please list that activity and associated notes and rate. These items will be discussed upon bid review.

| Activity | Notes/Units | Quantity | Rate |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

## Appendix E

## Bid Details, Exclusions/Assumptions

Company Name: _____

Date: _____

* Please include in your proposal any assumptions not included in this RFP.

* Please list any subcontractors proposed for use on the project.

* Please list the name/location of proposed disposal facilities for the project.

# Appendix F

## Soil Map, Oswego County

Soil Map—Oswego County, New York
(2657 State Road 3 Volney NY)




Map Scale: 1:2,430 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 35 70 140 210

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

## MAP LEGEND

**Area of Interest (AOI)**
- Area of Interest (AOI)

**Soils**
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

**Special Point Features**
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

**Water Features**
- Streams and Canals

**Transportation**
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

**Background**
- Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Oswego County, New York
Survey Area Data: Version 17, Sep 3, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Oct 10, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|---|---|---|---|
| HkB | Hinckley gravelly loamy sand, 3 to 8 percent slopes | 15.8 | 74.2% |
| IrA | Ira gravelly fine sandy loam, 0 to 3 percent slopes | 5.5 | 25.8% |
| **Totals for Area of Interest** | | **21.3** | **100.0%** |

# Groundwater & Environmental Services, Inc.
# Request for Quote – Water Service Installation
# Version 2
# All Edits are in RED

Site Address:

- Crosby Hill Mobile Home Park
  - 2657 State Route 3, Volney, NY 13069

Due date for Bids:

- **Monday June 24, 2019, 5 pm EST**
- Due to time pressures on the project, no extensions of this deadline will be given.

Date of Required Bid Walk:

- **Wednesday May 29, 2019, 10 am EST**

Questions:

- Any questions related to this RFQ shall be submitted in writing via email to both Scott McDonald and Genevieve Bock at smcdonald@gesonline.com and gbock@gesonline.com
- All questions shall be submitted by **Wednesday, June 5, 2019 by 5 pm EST.**
- Answers to all questions shall be supplied via email to all Contractors (likely around June 12th).

Tentative Start Date:

- As soon as feasible pending obtaining materials and Contractor schedule.

## Scope of Work Summary:

GES is requesting an itemized, written cost proposal for installation of publicly-supplied water service to the Crosby Hill Mobil Home Park. This work will be performed for the New York State Department of Environmental Conservation (NYSDEC) under the direction of GES and the NYSDEC engineering consultant – EA Engineering, P.C. (EA). General scope items include:

- Horizontally drilling water mains including completing utility clearance
- Installing a hot box, electrical service, concrete pad and protective bollards around a main water meter and backflow preventer
- Installation of valves, saddles, hydrants, curb stops and meter pits
- Installation of thrust blocks as required

- Installation of individual service lines and tees to homes in the park including excavation, backfilling, compaction, and restoration
- Pressure testing, disinfecting, and flushing the distribution system
- Bacteriological sample collection and analysis from the water main
- Transport and disposal of the following wastes (assume non-hazardous classification):
    - Soil
    - Drilling fluids/mud
- Restoration of disturbed areas with either topsoil/seed/mulch or gravel.
- Sampling and analysis of backfill materials (bedding material, topsoil, etc.) in accordance with DER-10, section 5.4(e) in addition to the following:
    - Soil imported to a site for use in a soil cap, soil cover, or as backfill must be tested for 1,4-dioxane and PFAS contamination in general conformance with DER-10, section 5.4(e). Soil samples must be analyzed for 1,4-dioxane using EPA Method 8270 as well as the full list of PFAS compounds (currently 21) using EPA Method 537.1 (modified).
    - For 1,4-dioxane, soil exceeding the Unrestricted SCO of 0.1 ppm must be rejected per DER 10: Appendix 5 - Allowable Constituent Levels for Imported Fill or Soil, Subdivision 5.4(e).
    - If PFOA or PFOS is detected in any sample at or above 1 ppb, then a soil sample must be tested by the Synthetic Precipitation Leaching Procedure (SPLP) and the leachate analyzed. If the SPLP results exceed 70 ppt combined PFOA/S, then the source of backfill must be rejected. Contractor has the option of analyzing

General project information is summarized in this RFQ and specifications of the project are detailed in the following attachments:

- Design Drawings (**Appendix A**)
- Section 33 05 23.13 Utility Horizontal Directional Drilling (**Appendix B**) *{Specifications}*
- Section 33 11 00 Water Utility Distribution Piping and Appurtenances (**Appendix C**) *{Specifications}*
- Bid Sheet (**Appendix D**)
- Bid Exception and Subcontractor Sheet (**Appendix E**)
- Soil Map, Oswego County (**Appendix F**)

**Payment & Qualifications:**

- The Subcontractor must be GES approved, and will bill GES directly in accordance with the Terms & Conditions agreed to in the subcontractor MSA between the contractor and GES.
    - Flow-down requirements from GES' Client will be in effect.
    - Regardless of agreements between the Contractor and GES in your MSA, payment terms will be 10 days after GES is paid (paid-when-paid) and no discounts apply.
- All on-site personnel must have OSHA 40Hr HAZWOPER Training and Loss Prevention System (LPS) training (GES oversight personnel can provide on-site LPS Training for subcontractors).

**Required Submittals as part of the cost proposal:**

- Completed Bid Sheet (**Appendix D**)
- Completed listing of subcontractors and written deviations/assumptions to the scope of work (**Appendix E**)
- Gantt chart depicting the anticipated schedule for completion of all work activities from the time of project award

- General methodology for completing the project which should include a list of anticipated permits, general plan for ensuring the safety of workers in open excavations (sloping/shoring, etc.), anticipated facilities for waste disposal, and a list of main equipment to be utilized.
- Detailed bid breakdown of all bid items
- Time and Materials rate sheet and markup amount to be used for allowance items or change orders associated with the project

**Contracting Details:**

- The Client (NYSDEC) has specific contracting mechanisms. Payment will only be made in the form of units as detailed on the attached bid form (**Appendix D**).
    - The bid form indicates the estimated number of units only. The Contractor can only invoice and be paid for the actual number of units utilized/completed during the project.
    - All requirements of the project as detailed in the attached Design Drawings and Specifications must be completed by the Contractor even if not specifically referenced in the units on the bid form. Therefore, the Contractor shall include pricing for all project requirements as noted in the Design Drawings and Specifications within the unit rates provided in the bid form.
    - Generally, ½ of the mobilization/demobilization unit can be billed after mobilization is complete and work is started on the project site. Then second ½ of the mobilization/demobilization lump sum unit can be billed upon successful completion of the job and demobilization of all personnel, equipment, and supplies from the site. If the Contractor wished to propose a different payment mechanism for invoicing the mobilization/demobilization unit, this must be detailed in your assumptions/exceptions page (**Appendix E**).
- Change orders:
    - Due to NYSDEC procurement department requirements, change orders will not be given at any time during the project unless the NYSDEC or EA request additional work be added to the scope. At that time, the Contractor will be required to provide a written change order responding to the requested additional of scope which must be approved by the NYDEC and by GES via execution of an additional GES subcontract before work proceeds.
    - Due to the item above, the Contractor shall thoroughly review the attached Design Drawings and Specifications and shall request any and all clarifications in writing during the bid process that are required to provide a fully responsive bid.

**Required Submittals from the Winning Bidder To Be Submitted Prior to Mobilization:**

- Specific Project Submittals:
    - The attached Design Drawings and Specifications detail individual submittals which are required to be provided. These submittals which include shop drawings/manufacturer cut sheets for all piping, fittings, valves, and equipment, a written drilling plan, a directional drilling contingency plan, and HDPE fusion welding quality assurance plan.
    - Additionally, the Contractor shall provide a map detailing proposed equipment, waste, and materials staging areas on-site for the project.
    - The Contractor shall also specify the name and address or proposed non-hazardous waste facilities to be utilized. All disposal facilities must be permitted facilities in compliance with federal, state, and local regulations.
    - All submittals detailed in the Design Drawings and Specifications must be provided within 3 weeks from completion of contracting with GES.
    - All submittals will be reviewed by EA Engineering, P.C. (EA). EA will provide either approval of submittals or feedback on required amendments/additions.

  - Mobilization to the site to complete work cannot commence until all submittals are approved by EA and the NYSDEC.
- Health & Safety Submittals:
  - Level of personal protective equipment (PPE) to be utilized by all on-site personnel.
  - Job Safety Analysis (JSAs) for all work tasks (horizontal drilling, excavation, backfilling, pipe fusing, etc.).
- Additional Submittals:
  - After submittals are approved by EA, the Contractor shall provide an updated project schedule at least 2 business days before mobilization.

**Equipment Requirements:**

- All equipment used shall be in good working condition. Use of leaking equipment will not be permitted on site.
- Equipment shall be inspected daily before use.

**General Notes:**

- The Subcontractor will contact UFPO for a public mark-out. The contractor shall take all reasonable precautions to prevent damage to utilities.
  - GES will directly coordinate for a private utility mark-out to be completed prior to the Contractor mobilizing to the site to start work. The sewer line and other utilities will be marked-out during the private mark-out.
- The contractor shall have Health & Safety equipment including personal protective equipment (PPE), barricades, fencing, caution tape, road cones, whip checks/locking pins, etc.
- The immediate work area for trenching and piping installation will be within the occupied mobile home park. Therefore, the Contractor must provide and utilize appropriate traffic control devices around all work areas and open excavations at all times to protect both Contractor workers and the public.
- The contractor shall provide port-a-potty facilities for the duration of the project. The contractor shall identify the number of port-a-potty facilities to be provided based on the size of the work crew at the site, but shall provide a minimum of one (1) port-a-potty for the duration of the project. The portable restroom facilities shall be serviced every week at a minimum or at a more frequent appropriate timeframe designated by the contractor based on the size of the work crew.
- The Contractor shall be responsible for providing all materials, equipment, and labor for completion of the project as indicated in this RFQ and as shown on the Drawings (**Appendix A**) and the Specifications (**Appendix B** and **C**) in a safe and efficient manner even if not specifically referenced in this RFQ.
- Although material details provided in the Specifications (**Appendix B** and **C**) often refer to an “approved equal”, the Contractor should note that the following items can not be substituted for equals due to previous approval of material specifications from the local town or public water supplier:
  - Fire hydrant
  - Flushing hydrant
  - Backflow preventer
  - Meter Pits

**Project Information:**

- Contractor shall assume that personnel in excavations must be protected/shielded via trench boxes or other mechanical stabilization means such that OSHA requirements are followed.

- Sloping/benching the walls will not be allowed to minimize disturbance to the property.

- Soil type:
  - Limited information is available about the soil type at the site.
  - Based on the Oswego County Web Soil Survey, the majority of site soil is gravelly loamy sand, with some gravelly fine sandy loam in the northwest corner of the property (see **Appendix F**).
- Depth to Water & Dewatering Needs:
  - Depth to groundwater information at the site is limited. The property owner has indicated he has never encountered water at the site to depths of at least 4 feet below grade.
  - For the purpose of this RFQ, the Contractor shall assume that no groundwater will be encountered during trenching activities. However, the Contractor shall provide costs in the Bid Form for mobilizing dewatering equipment to the site in the event water is encountered.
    - The mobilization/demobilization charge for the dewatering equipment shall cover all time, effort, coordination, and transport to mobilize necessary dewatering equipment to the site.
      - The Contractor shall provide one (1) frac tank (at least 20,000 gallon capacity) and all pumps and hoses required to dewater individual excavations into the frac tank.
    - The Contractor shall provide a weekly dewatering equipment rental rate. This unit will be billed for each 7-day period the equipment is on-site during the project.
      - GES will be responsible for providing water treatment equipment and operating water treatment equipment to treat and discharge water from the frac tank. Rental of the dewatering equipment will be necessary until all water is treated and discharged by GES.
    - In order to account for any time delay in work progression associated with needing to dewater excavations is necessary, the Contractor shall provide a per gallon unit price associated with dewatering. The contractor shall provide an influent totalizer on the hosing before the frac tank to account for the gallons of water pumped to be invoiced on the rate provided. The totalizer shall be brass or another type of mechanical totalizer – not an electronic display totalizer.
- Drilling fluids:
  - The Contractor shall utilize hydrant water for drilling fluids and shall obtain the appropriate OCWA permit for hydrant use.
    - The Contractor shall use a de-sander/recycler and filter box for sediment.
    - Drilling fluids will be disposed of off-site by the Contractor.
- Restoration:
  - Restoration will include topsoil and seed or crushed stone to match pre-existing conditions in all disturbed areas as indicated in the Drawings.
  - If restoration other than topsoil/seed and crushed stone is required, the Contractor will discuss with GES during the project and submit an itemized change order for an alternate restoration. No work will proceed until the change order is fully approved and a new work order is executed between GES and the Contractor for the change order amount.
  - Seed shall be applied in accordance with New York State Department of Transportation (NYSDOT) Specifications Section 610 Turf and Wildflower Establishments. Contractor is responsible for applying water, fertilizer, mulch, and re-seeding to promote grass seed germination of a minimum of 80% by area prior to final completion.
- Pipe Insulation Required:

- On page 33 11 00-8 of the specifications, it states "Provide a minimum of 5.5' of cover over watermain, unless otherwise shown on the drawings or directed by GES. For watermains with less than 5.5' of cover, provide insulation as shown on the drawings, or as directed by GES."
- Insulation, if required, shall be 1-inch of rigid foam insulation per 1 foot above the frost line, defined as 5' below grade. Therefore, between 5' and 4' below grade, 1-inch of insulation is required, between 4' and 3' below grade, 2-inches of insulation is required, etc.

**Permits:**

- The Contractor shall be responsible for determining if any permits are required to complete this scope of work and shall detail the required permits with their proposal (including electrical permits). The Contractor is responsible for obtaining and appropriately closing-out all permits to complete the scope of work.
  - Specifically, the Contractor shall obtain an OCWA hydrant use permit.
  - It is anticipated that the Contractor will need to obtain a DOT permit for working in the road righ-of-way.
  - OCWA connection fee: The Contractor will be responsible for coordination of payment of the OCWA connection fee; however, GES will provide the Contractor with a check for the actual fee amount to be submitted to the OCWA.

**Power Availability at the Site:**

- Power availability at the Site will be discussed with the property owner at the mandatory bid walk.

**Waste Disposal:**

- The Contractor will be responsible for sampling, laboratory analysis, coordination, transportation, and disposal of all waste unless otherwise noted. Copies of all approved waste profiles and manifests shall be provided to GES. The GES on-site representative will sign manifests and bills of lading on behalf of the Client as required.
- The Contractor shall assume that all waste material is classified as non-hazardous.
  - Drilling fluids:
    - Drilling fluids shall be disposed of off-site at a licensed disposal facility.
    - All drilling fluids shall be sampled per disposal facility requirements prior to transport off-site.
    - All soil and water laboratory analyses shall be in accordance with the July 2005 or most current edition of the NYSDEC Analytical Services Protocol by a laboratory currently certified by the New York State Department of Health-Environmental Laboratory Approval Program (ELAP) Solid and Hazardous Waste Categories (soil and water samples). Although ELAP does not offer certification for PFAS compounds in matrices other than finished drinking water, the laboratory shall hold ELAP certification for PFOA and PFOS in drinking water by EPA Method 537 or ISO 25101.
    -
  - Drilling mud/cuttings & Soil from trenches:
    - Drilling mud/cuttings and excavation soils shall be staged and sampled for *PFAS in accordance with Item 3 above. Analysis for 1,4 Dioxane for on-site soils proposed for onsite use will not be required. Soils not meeting that criteria shall be disposed of off-site at a permitted disposal facility.* Otherwise, soils shall be reused as backfill material

in trenches or *a limited amount may be spread in an onsite location; volume and location is to be determined by the property owner and as directed by the Engineer*.

- Soils with concentrations exceeding 140 ppb of either PFOA or PFOS shall be disposed of off-site. Otherwise, soils shall be reused as backfill material in the trenches or spread onsite in a location designated by the property owner. This work shall be included in the base price of excavation/drilling per foot.
    - If soil must be disposed of off-site, the Contractor shall be responsible for sampling the soil as necessary per the approved disposal facility requirements.
    - If it is determined that soils must be disposed of off-site, the Contractor will bill the bid form unit price per cubic yard for soils which are disposed of off-site. In the event that additional clean backfill material is needed to be brought on-site to backfill excavations (if soils cannot be reused for backfill), the Contractor will bill backfill material on a cubic yard basis. Delivery tickets for backfill will be required as back-up for invoices.
- Samples shall be analyzed for the 21 compound PFOA/PFOS list via modified EPA Method 537 with a reporting limit of 1 part per billion.
    - Soils may remain on-site if concentrations of PFOA or PFOS does not exceed 140 parts per billion (ppb).
    - GES, the NYSDEC, and EA will review and approve soil laboratory analytical reports to confirm soil reuse is acceptable.
- Drilling mud: At least one grab sample per main shall be collected unless the volume is >500 cubic yards, then collect 2 grab samples. If the volume per main exceeds 1,000 cubic yards, collect one grab sample every 1,000 cubic yards thereafter.
- Excavated soils: Excavated soils shall be sampled at the frequency of one grab sample per excavation shall be collected unless the volume is >500 cubic yards, then collect 2 grab samples. If the volume per excavation exceeds 1,000 cubic yards, collect one grab sample every 1,000 cubic yards thereafter.

o Groundwater:

- If dewatering activities are required during soil excavations, the Contractor is not responsible for water disposal off-site. The Contractor shall be responsible for dewatering the excavation and providing dewatering equipment as detailed elsewhere in the RFP.
- GES will coordinate treatment and disposal of water from the frac tank provided by the Contractor as part of supplied dewatering equipment.

**Proposed Rates for Weather-Related Delays:**

- The contractor shall include in their unit pricing as defined on the Bid Sheet normal delays associated with routine weather issues including rain, heat, cold, etc.
- However, in the event that the execution of this project on-site continues into the winter months, the Contractor shall provide an hourly unit rate on the Bid Sheet to account for on-site mechanical snow removal to clear the work area so that routine work can progress (via skid steer or other similar equipment). These units will only be able to be billed out if the Contractor is actually clearing snow during the work.

**OTHER NOTES AND ITEMS TO FOLLOW:**

- Soft dig methods will be required at each location where the existing water service to each residence and the existing sewer line is exposed (exploratory excavations).
- The Contractor shall repair at no cost to GES or the Client any damage to utilities, foundations, or other site structures which occur during the course of the project.
- General refuse will be disposed by the contractor.
- This project will be exempt from NYS Sales Tax. A ST120.1 tax exempt form will be issued by GES to the subcontractor.
- GES reserves the right to reject any and all bids in its sole discretion. Any award to supplier shall only be by written Work Order executed by authorized representatives of GES and Supplier.

## Appendix E

## Bid Details, Exclusions/Assumptions

Company Name: _____

Date: _____

**Time Frame:** Please provide anticipated start-date. _____

Please provide anticipated number of weeks on-site to complete work. _____
*Gantt chart to be submitted with your bid.*

* If you feel that an activity that you will be performing is not captured in one of the rates/units included on the Bid Sheet (**Appendix D**), please list that activity and associated notes and rate. These items will be discussed upon bid review.

| Activity | Notes/Units | Quantity | Rate |
|---|---|---|---|
| | | | |
| | | | |
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| | | | |
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| | | | |

## Appendix E

## Bid Details, Exclusions/Assumptions

Company Name: _____

Date: _____

* Please include in your proposal any assumptions not included in this RFP.

* Please list any subcontractors proposed for use on the project.

* Please list the name/location of proposed disposal facilities for the project.

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# Appendix D

# Meeting Minutes

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**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**CROSBY HILL MOBILE HOME PARK WATER SERVICE INSTALLATION**
**OSWEGO COUNTY, NEW YORK**

**PRE-CONSTRUCTION MEETING MINUTES**

Date: Thursday, August 15, 2019

Time: 10:00 a.m.

Location: Crosby Hill Mobile Home Park, 2657 State Route 3, Volney, NY 13069

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**1. Sign-in sheet for attendees (attached).**

**2. Representatives and responsibilities:**

Went around with introductions and roles:
Jeff Proulx – North Country Contractors, LLC owner
Tina Fredette – NCC Assistant Project Manager
Scott McDonald – GES Project Manager
David Harrington – New York State Department of Environmental Conservation (NYSDEC) Section Chief
David Chiusano – NYSDEC Project Manager, noted Kris Keenan and/or John Nead, Field representatives for NYSDEC, would be present onsite periodically
Don Conan – EA Engineering, PC (EA), Engineer of Record, NYSDEC Program Manager
William Havener – Oswego County Health Department
Christopher Wright – Oswego County Health Department, disinfection
Todd and Cindy Redhead – Crosby Hill Mobile Home Park owner
Megan Miller – EA Project Manager
Lindsay Mairs – EA construction oversight alternate
Steve Van Arnam – EA Construction oversight

**3. Site Considerations**

- Parking – Todd Redhead stated vehicles can be parked in the front of the pole barn, near the front entrance, or in the gated area in the back of the park. Todd asked NCC what kind of space requirements they will have. Jeff Proulx stated most equipment can be staged in the location where it's being used, most equipment does not need to be in a secured area. Would like to put a 20' metal storage container in the fenced in area at the back of the property, Todd stated this is acceptable.
- Securing excavations and equipment – Scott McDonald stated GES would make safety of residents their priority, they will furnish signs, flags, cones,

secure excavations, and interact with residents through Todd Redhead. GES will have a Health and Safety manager onsite, who will enforce GES H&S policies, manage tailgate meetings, and visitors log.

- Traffic/School Bus pickups/drop offs – Todd stated there is a school bus stop at the entrance of the park, the bus turns around in the driveway, this will need to remain clear.
- Utilities lines – Scott stated GES had markout completed, there is a gas line that will require locating by hand. NY Leak Detect to be used during project
- Storage- approved locations, equipment to be secured overnight and during weekends
- Field office/ toilet facilities – GES and NCC plan to use trucks, no field office, but toilet facilities will be provided. GES to provide jet pack for internet.

**4. Schedules**

- Project Schedule – Jeff stated NCC is waiting on delivery of materials, they are targeting September 9 as start date, will mobilize materials to site the week of September 3; expect work to take 8 weeks.
- Dave Chiusano asked if tree removal would take place prior to 9/9, Jeff stated tree removal would take place concurrent with site work, after 9/9
- Bill Havener asked who would be coordinating with OCWA prior to tapping the Route 3 water main, Don Conan stated main does not need to be tapped, there is an existing valve. Jeff stated NCC would coordinate with OCWA prior to operating the valve. Bill suggested that Geoff Miller and Sean Hayes of OCWA should be included as contacts. Dave Chiusano noted additional NYSDOH contacts should also be added to contact list.
- Contractor/Subcontractor work hours- 7am to 5:30pm, 7am to 3:30pm on Fridays
- Contractor/Subcontractor work days – Monday-Friday; Tina Fredette stated NCC will file for dispensation, will need signature of NYSDEC

**5. Coordination**

- Onondaga County Water Authority – EA to notify of project schedule, NCC to coordinate during work
- Oswego County Health Department – EA to notify of project schedule, NCC to coordinate during work
- Residents of Crosby Hill Mobile Home Park –GES/Todd Redhead to notify of project schedule, working days/hours, individual notifications of interrupted service and service connections; Don Conan stated EA would prepare “door hangers” with information for residents about what to expect during installation.
- Volney Fire Department – NCC to notify of fire hydrant flow testing and color. Don Conan noted hydrant flow test would be done after disinfection of distribution lines.

- Town of Volney – EA to notify of schedule

## 6. Progress Meetings

- Progress Meetings will be held weekly, Tuesdays or Thursdays once work starts. Bill Havener requested that meeting minutes be provided to Oswego County Health Dept.
- Special meetings to be called by NYSDEC, GES, EA as necessary

## 7. Communication – Contact List

| Role | Name | E-mail |
|---|---|---|
| NYSDEC PM | David Chiusano | david.chiusano@dec.ny.gov |
| NYSDEC Section Chief | David Harrington | david.harrington@dec.ny.gov |
| NYSDEC Project Field Rep | Kris Keenan | Kristopher.keenan@dec.ny.gov |
| NYSDEC Project Field Rep | John Nead | John.Nead@dec.ny.gov |
| NYSDEC Bureau E Director | Michael Cruden | michael.cruden@dec.ny.gov |
| NYSDOH PM | Scott Alderman | scott.alderman@health.ny.gov |
| NYSDOH | Sara Bogardus | Sara.Bogardus@health.ny.gov |
| NYSDOH | Maureen Schuck | Maureen.Schuck@health.ny.gov |
| NYSDOH | Courtney Davis | Courtney.Davis@health.ny.gov |
| Oswego County Health Department | Christopher Wright | Christopher.Wright@oswegocounty.com |
| Oswego County Health Department | William Havener | William.Havenerjr@oswegocounty.com |
| Town of Volney | Donald Ryan | volneycodes@centralny.twcbc.com |
| Volney Fire Department | Greg Goodrow | Volneyemt2802@yahoo.com |
| Onondaga County Water Authority, Engineer | Tavia Gilbert | tgilbert@ocwa.org |
| CHMHP Owner | Todd Redhead | Tred17@aol.com |
| Prime Contractor (GES) PM | Scott McDonald | smcdonald@gesonline.com |
| Subprime Contractor (NCC) PM | Tina Fredette | tina@ncc-llc.com |
| Subprime Contractor (NCC) Owner | Jeff Proulx | jeff@ncc-llc.com |
| Engineer (EA) PM | Megan Miller | mmiller@eaest.com |
| Engineer (EA) Engineer of Record | Don Conan | dconan@eaest.com |
| Engineer's On-Site Representatives (EA) | Steve Van Arnam<br>Lindsay Mairs | svanarnam@eaest.com<br>lmairs@eaest.com |

## 8. Contractor's Planned Activities for August and September 2019

Jeff stated they anticipate 2 weeks of horizontal drilling, 1 week of testing/chlorinating, 3 weeks of unit connections

## 9. Open Discussion

- Remaining submittals- list to be provided to NCC and NYSDEC
- Jeff asked if electric meter can be installed on existing pole near park entrance. Scott stated yes, or could connect to existing service that is already metered. Looked at this after the meeting to verify it would work. Don noted that electric service is for a small amount of electricity required to heat hot box that will contain the main OCWA meter and backflow prevention device. Will not use too much energy, even in the winter due to insulation and groundwater temperature.
- Don Conan stated they would need to consider the potential for additional trailers to be added. Scott stated he could order more meters and have them pre-programmed. Dave Chiusano stated this is a good idea.
- Dave Chiusano noted need to consider how site will be left in the winter, may not be able to seed before end of season.
- Scott stated GES is planning to decommission wells; verified 4 wells in total. Asked Todd if there is a pump in the well on the southwest corner of the site, Todd stated he does not believe there is.
- Dave Chiusano asked if there is a different setup for the apartment house. Megan stated there is, asked Todd if Jeff could look at that after the meeting, Todd confirmed. Todd asked if the plans had been updated to bring the connection over to the far (east) side of the house, Megan confirmed that they had.
- Don Conan noted that new water distribution system is likely to have higher pressure than existing. PRV to be installed at each trailer, can be altered if necessary following startup. Dave Chiusano stated we need to have a response plan in the event leaks to occur following project completion.
- Todd asked if new heat trace is to be included; Don confirmed that it is.

## 10. Summarize Action Items from Meeting

**EA-**

- Meeting minutes by early next week (8/19/19)
- Door hangers to be prepared for distribution prior to start of work, week of 8/26/19
- Progress meeting invite, first meeting week of 9/16/19
- Remaining submittals list
- Notify OCWA, Town of Volney, NYSDOH, Oswego County Health Dept of Schedule (when received)

**GES-**

- Remaining submittals list from RFQ
- Work Plan

**NCC-**

- Remaining submittals
- Schedule

**NYSDEC-**

- None

8/15/19 Crosby Tonolei

| Name | Firm | email |
|---|---|---|
| Scott McDonald | GES | SMcDonald@GESonline.com |
| David Chiusano | DEC | david.chiusano@dec.ny.gov |
| David Harrington | DEC | david.harrington@dec.ny.gov |
| Chris Wright | Oswego Co | christopher.wright@oswegocounty.com |
| Tina Fredette | NCC | Tina@ncc-llc.com |
| Megan Miller | EA | mmiller@eaest.com |
| Lindsay Mairs | EA | lmairs@eaest.com |
| Don Conan | EA | dconan@eaest.com |
| Steven Van Arnam | EA | svanarnam@eaest.com |
| Jeff Prouty | NCC | jeff@ncc-llc.com |
| Todd Redhead | Park owner | TREDH@AOL.com |

# PROGRESS MEETING NO. 01 MINUTES
# Crosby Hill Mobile Home Park (CHMHP)
# Site Number: 1805786

***Thursday, October 3, 2019; 10:00 AM***

1. **Sign in/Representatives**

| Name | Company | Present | Via Phone |
|---|---|---|---|
| David Harrington | NYS D.E.C. | | |
| David Chiusano | NYS D.E.C. | X | |
| Kris Keenan | NYS D.E.C. | X | |
| Don Conan | EA | X | |
| Megan Miller | EA | | X |
| Steven Van Arnam | EA | X | |
| Lindsay Mairs | EA | | |
| Todd Redhead | CHMHP | X | |
| Scott McDonald | GES | X | |
| Chad Hill | GES | | |
| Jeff Proulx | NCC | X | |
| Tina Fredette | NCC | | |
| Scott Alderman | NYS D.O.H. | | |
| Garrett Cappon | NYS D.O.H. | | X |
| William Havener | Oswego County DOH | | |
| Christopher Wright | Oswego County DOH | | |
| | | | |

2. **Pre-construction Meeting Minutes-** No comments received regarding the pre-construction meeting minutes; minutes shall be made a part of the project record.

3. **Follow up item status:**
   - **EA ENGINEERING**
     - All required notifications have been made regarding OCWA, Town of Volney, NYS D.O.H., and the Oswego County Health Dept.
     - Construction Schedule revised 9/13/2019 has been circulated.
   - **GES / NCC**
     - Noted additional service lines have been added to the CHMHP maintenance buildings and existing water distribution plant.
     - Additional Neptune water meters have been acquired for delivery to CHMHP for future use.
     - Scott stated GES has removed equipment from existing well pit for sampling and eventual decommission of onsite water wells, coordinate sampling procedures with NYS D.E.C.
     - Volney Fire Department – NCC to notify of fire hydrant pressure testing and color.
   - **NYS D.E.C**
     - N/A

4. **Status of Project Submittals / Work Plans / Construction Schedule**
    a. Submittals- No Outstanding Submittal.
    b. Construction Schedule, REVISED 9/13/2019, Contractor on schedule.

5. **Discussion of work completed to date.** (Jeff Proulx, NCC)
    - Mobilized materials and equipment
    - Directional drill crew installed 3" HDPE pipe
    - Directional drill crew installing 8" HDPE pipe
    - Pipe crew beginning connections of 3" HDPE pipe, lines 'B' / 'G' connection done
    - Yard hydrant on end of Line 'G' installed

6. **Discussion of Contractor's Scheduled Work for the next week 10/07/19 to 10/11/19.**
    1. Pipe crew(s) to continue 3" HDPE connections along lines 'A' and 'G'
    2. Begin construction of supply pipe to backflow preventor / main meter assembly for hot house, will notify OCWA when uncovering their valve.
    3. Fill and flush 8" ø and 3" ø mainlines in CHMHP.

7. **Other or Additional Project Issues:** (Scott McDonald, GES)
    - Have coordinated the additional services, connections, and delivery of extra water meters discussed with NYS D.E.C. and Todd Redhead, Crosby Hill Mobile Home Park Owner.

8. **Open Discussion**
    - Noted that an existing deteriorated drywell was driven over by drilling machine, the condition of the drywell is beyond repairable, therefore replacement may be warranted. Issue needs review regarding making repairs and the need for permitting. A precast concrete seepage pit could be provided by NCC, including cast iron frame & cover, bedding stone, Mirafi fabric, required piping, and restoration.
    - An existing water service to Mobile home B2 was broken while drilling for new 1" HDPE service. Park Owner made repairs. It was discussed that all residence of the Park should be advised that all disruptions of service will be coordinated. Unscheduled disruptions of service should be reported the Owner or Crews.
    - After hours emergencies shall be reported to Scott McDonald @ GES, Scott will notify Jeff Proulx, NCC and Don Conan, EA Engineering.
    - Jeff Proulx with NCC noted that he would be revising the water sampling plan for bacteriological sampling to an alternate AWWA plan, submittal shall be forthcoming. Dave Chiusano, NYS D.E.C. noted that Oswego County Health Dept. should be provided with alternate sampling plan and receive their input as part of submittal review. EA Engineering shall prepare certification correspondence for submission to DOH.
    - Trees in conflict with water works and installation should be removed as part of the Project, coordinate locations and trees with Todd Redhead- Park Owner, Scott McDonald- GES, Jeff Proulx- NCC, and Steven Van Arnam- EA Engineering.
    - Field coordinate final mobile home water connection details and methods during startup of field connections w/ Park Owner- Todd Redhead.

9. **Follow Up/On-going/Action Items**

- **EA ENGINEERING**
  - Notifications of water disruption activities 24 hours in advance of work.
  - Review mobile home connections in the field between Park Owner and NCC.
  - Review of water system disinfection plan and certification.

- **GES**
  - Notifications of water disruption activities 24 hours in advance of work.
  - Coordinate existing water well sampling and decommissioning.

- **NYS D.E.C.**
  - N/A

- ***NYS D.O.H. / OSWEGO COUNTY HEALTH DEPT.***
  - Steven Van Arnam shall contact Garrett Cappon to follow-up on the meeting events due to the failed teleconference connection.

**10. Next Scheduled Meeting (Progress Meeting No. 02)**

Thursday October 10, 2019 @ 10:00 AM- via teleconference.

# PROGRESS MEETING NO. 02 MINUTES
# Crosby Hill Mobile Home Park (CHMHP)
# Site Number: 1805786

## Thursday, October 10, 2019; 10:00 AM

1. **Sign in/Representatives**

| Name | Company | Present | Via Phone |
|---|---|---|---|
| David Harrington | NYS D.E.C. | | X |
| David Chiusano | NYS D.E.C. | | X |
| Kris Keenan | NYS D.E.C. | | |
| Don Conan | EA | | |
| Megan Miller | EA | X | X |
| Steven Van Arnam | EA | X | |
| Lindsay Mairs | EA | | |
| Todd Redhead | CHMHP | X | |
| Scott McDonald | GES | X | |
| Chad Hill | GES | | |
| Jeff Proulx | NCC | X | |
| Tina Fredette | NCC | | |
| Scott Alderman | NYS D.O.H. | | |
| Garrett Cappon | NYS D.O.H. | | X |
| William Havener | Oswego County DOH | X | |
| Christopher Wright | Oswego County DOH | | |
| | | | |

2. **Progress Meeting No. 01 minutes-** No comments received regarding the minutes for previous Progress Meeting; the minutes shall be made a part of the project record.

3. **Follow up item status:**
   - **EA ENGINEERING**
     - Notifications of water disruption activities 24 hours in advance of work.
     - Review mobile home connections in the field between Park Owner and NCC.
     - Review of revised water system disinfection plan and certification.
   - **GES / NCC**
     - Notifications of water disruption activities 24 hours in advance of work.
     - Coordinate existing water well sampling and decommissioning.
   - **NYS D.E.C**
     -

4. **Status of Project Submittals / Work Plans / Construction Schedule**
   a. Submittals- No Outstanding Submittal.
   b. Construction Schedule, REV 9/13/2019, **Copy Attached**, Contractor on schedule.

5. **Discussion of work completed to date.** (Jeff Proulx, NCC)
    - Mobilized materials and equipment for "hot box" meter assembly structure
    - Directional drill crew completed 8" HDPE pipe
    - Pipe crew completed connections of 3" HDPE pipes to Line 'A', 8" HDPE pipe

6. **Discussion of Contractor's Scheduled Work for the next week 10/07/19 to 10/11/19.**
    1. Continue construction of supply pipe through the backflow preventor / main meter assembly in "hot box" structure
    2. Fill, flush, chlorinate, and sampling for disinfection of mainline
    3. Begin individual service pipe / meter pit installations

7. **Other or Additional Project Issues:**
    - Additional services, connections, water meters not in original bid have been coordinated
    - Damaged drywell remediation- see item No. 8- Open Discussion below

8. **Open Discussion**
    A. Reviewed the existing deteriorated drywell on site at the Maintenance shops following the meeting. Bill Havener, Oswego County D.O.H. noted that this item could be "Replaced in Kind" as needed, no permit required. NCC will submit a precast concrete seepage pit, including cast iron frame & cover, suitable bedding stone & backfill, Mirafi fabric, piping, and restoration EA Engineering review.
    B. NCC proposes using Option B for taking samples for bacteriological analysis, Jeff Proulx noted that 16 hours after verification of the 24 hour minimum chlorine residual (minimum of 25 ppm) for disinfection, NCC would remove two sets of samples, minimum of 15 minutes apart, and submit both sets of samples to Converse Laboratories for the analytical. Bill Havener from Oswego Co. D.O.H. noted this is an acceptable alternative to Option A previously approved during the submittal phase.
    C. It was noted that Don Ryan with the Town of Volney should be notified when Park Mobile Homes would be getting placed in service on the new water distribution system. Megan Miller with EA Engineering will contact the Town.
    D. Trees in conflict with water works (Total of 4 thus far) are being removed as part of the Project, Todd Redhead- Park Owner, Scott McDonald- GES, Jeff Proulx- NCC, and Steven Van Arnam- EA Engineering are coordinating individual trees, trunks are being disposed of offsite by the sub-contractor Advanced Tree Service.
    E. Field coordinate final mobile home water connections 24 hours in advanced of field connections w/ Mobile Home Resident and Park Owner- Todd Redhead.

9. **Follow Up/On-going/Action Items**

    - **EA ENGINEERING**
        - Notifications to Residents of water disruption activities 24 hours in advance of work.
        - Notify Town of Volney Building Permits Officer Don Ryan of mobile home connections to the new Water Distribution System.
        - Provide markup sketch of connection to trailers to NYSDEC
        - Provide work completed and look ahead
    - **GES**

- Notification to Residents of water disruption activities 24 hours in advance of work.
- Addition of Seepage Pit replacement behind Maintenance shops; submittal from NCC
- Coordinate existing water well sampling and decommissioning.

- **NYS D.E.C.**
  - N/A

- **NYS D.O.H. / OSWEGO COUNTY HEALTH DEPT.**
  - Email approval for change of disinfection/sampling method

**10. Next Scheduled Meeting (Progress Meeting No. 03)**

Thursday October 17, 2019 @ 10:00 AM- via teleconference.

# PROGRESS MEETING NO. 03- MINUTES
# Crosby Hill Mobile Home Park (CHMHP)
# Site Number: 1805786

## Thursday, October 17, 2019; 10:00 AM

1. **Sign in/Representatives**

| Name | Company | Present | Via Phone |
|---|---|---|---|
| David Harrington | NYS D.E.C. | | |
| David Chiusano | NYS D.E.C. | | X |
| Kris Keenan | NYS D.E.C. | | |
| Don Conan | EA | | |
| Megan Miller | EA | | X |
| Steven Van Arnam | EA | X | |
| Lindsay Mairs | EA | | |
| Todd Redhead | CHMHP | X | |
| Scott McDonald | GES | X | |
| Chad Hill | GES | | |
| Jeff Proulx | NCC | X | |
| Tina Fredette | NCC | | |
| Scott Alderman | NYS D.O.H. | | |
| Garrett Cappon | NYS D.O.H. | | |
| William Havener | Oswego County DOH | | |
| Christopher Wright | Oswego County DOH | | |
| | | | |

2. **Progress Meeting No. 02 minutes-** No comments received regarding the minutes for previous Progress Meeting; the minutes shall be made a part of the project record.

3. **Follow up item status:**
   - **EA ENGINEERING**
     - Notifications to Residents of water disruption activities 24 hours in advance of work.
     - EA Engineering notified Town of Volney Building Permits Officer Don Ryan of mobile home connections to the new Water Distribution System, Don Ryan stopped Thursday October 17, 2019 and reviewed project status- Town will not need to review each individual connection if performed by Contractor, with Construction Inspection services on site.
     - EA Engineering provide sketch of ball valve, insulated service connection in plastic pipe or pale, beneath each individual mobile home, detail to be included on "as-built" record drawing per NYS D.E.C.
   - **GES**
     - Notification to Residents of water disruption activities 24 hours in advance of work.
     - To obtain three proposals for addition of 48" Seepage Pit for drywell replacement behind Maintenance shops pending EA Engineering design
     - GES will be coordinating existing water well sampling week of October 21st.

- **NYS D.E.C.**
  - N/A
- **NYS D.O.H. / OSWEGO COUNTY HEALTH DEPT.**
  Email approval for change of disinfection/sampling method- Received Thursday October 10, 2019

4. **Status of Project Submittals / Work Plans / Construction Schedule**
   a. Submittals- No Outstanding Submittal.
   b. Construction Schedule, -revised .

5. **Discussion of work completed to date.** (Jeff Proulx, NCC)
   - "Hot box" meter assembly piping completed, structure foundation stone in place
   - Completed filling, flushing, and disinfection of 3" / 8" HDPE mainlines
   - Pipe crew completed installation of meter pits, service lines, and curb stops installed at fifteen locations thus far.

6. **Discussion of Contractor's Scheduled Work for the next week 10/18/19 to 10/25/19.**
   - Continue individual Mobile Home service pipe / meter pit installations
   - Installation of electrical to the meter assembly "hot box" structure
   - Construction of "hot box" foundation

7. **Other or Additional Project Issues:**
   - Damaged drywell remediation- NCC will submit and provide a precast concrete seepage pit, including cast iron frame & cover, suitable bedding stone & backfill, Mirafi fabric, piping, and with restoration
   - Trees in conflict with water works (Total of 4 thus far) are being removed as part of the Project, Todd Redhead- Park Owner, Scott McDonald- GES, Jeff Proulx- NCC, and Steven Van Arnam- EA Engineering are coordinating individual trees, trunks are being disposed of offsite by the sub-contractor Advanced Tree Service.

8. **Open Discussion**
   A. Oswego County D.O.H. requires certification of disinfection, and an Engineer signed letter regarding procedures for flushing, filling, hydrostatic pressure testing, and chlorination procedures. Correspondence shall include laboratory analytical results of "NEGATIVE" results for presence of bacteria in new water distribution system prior to authorizing that the system be placed in service. Also need to notify OCWA prior to placing new system in service.
   B.

9. **Follow Up/On-going/Action Items**

   - **EA ENGINEERING**
     - Notifications to Residents of water disruption activities 24 hours in advance of work.
     - Certification letter and procedure for disinfection of new water distribution system, letter to Oswego County D.O.H.

- Daily tracking of Mobile Homes with service install and units placed in service.

- **GES**
  - Notification to Residents of water disruption activities 24 hours in advance of work.
  - Addition of Seepage Pit replacement behind Maintenance shops; solicit three prices for procurement.
  - Coordinate existing water well sampling week of October 21, 2019.
- **NYS D.E.C.**
  - N/A

- **NYS D.O.H. / OSWEGO COUNTY HEALTH DEPT.**
  - N/A

**10. Next Scheduled Meeting (Progress Meeting No. 04)**

Thursday October 24, 2019 @ 10:00 AM- via teleconference.

# PROGRESS MEETING NO. 04 MINUTES
# Crosby Hill Mobile Home Park (CHMHP)
# Site Number: 1805786

## Thursday, October 24, 2019; 10:00 AM

1. **Sign in/Representatives**

| Name | Company | Present | Via Phone |
|---|---|---|---|
| David Harrington | NYS D.E.C. | | |
| David Chiusano | NYS D.E.C. | | X |
| Kris Keenan | NYS D.E.C. | | |
| Don Conan | EA | | |
| Megan Miller | EA | | X |
| Steven Van Arnam | EA | X | |
| Lindsay Mairs | EA | | |
| Todd Redhead | CHMHP | X | |
| Scott McDonald | GES | X | |
| Chad Hill | GES | | |
| Jeff Proulx | NCC | X | |
| Tina Fredette | NCC | | X |
| Scott Alderman | NYS D.O.H. | | |
| Garrett Cappon | NYS D.O.H. | | |
| William Havener | Oswego County DOH | | |
| Christopher Wright | Oswego County DOH | | |
| | | | |

2. **Progress Meeting No. 03 minutes-** No comments received regarding the minutes for previous Progress Meeting; the minutes shall be made a part of the project record.

3. **Follow up item status:**
   - **EA ENGINEERING**
     - Notifications of water disruption activities 24 hours in advance of work.
     - Certified new water distribution system for Oswego County Dept. of Health.

   - **GES / NCC**
     - Notifications of water disruption activities 24 hours in advance of work.
     - Backflow preventer inspected and certified for placement in service w/ OCWA.
     - Coordinate existing water well sampling and decommissionin, cut casing down below grade

   - **NYS D.E.C**
     -

   - **Oswego County Dept. of Health**
     -

4. **Status of Project Submittals / Work Plans / Construction Schedule**
    a. Submittals- No Outstanding Submittal.
    b. Construction Schedule, Contractor on schedule.

5. **Discussion of work completed to date.** (Jeff Proulx, NCC)
    - Completed installation of individual services, meter pits, and meters for all Units
    - Placed concrete for "hot box" meter assembly structure
    - Began coordinating notice of connections with Residents and GES
    - Began restoration of lawns and driveways

6. **Discussion of Contractor's Scheduled Work for the next week 11/01/19 to 11/08/19.**
    1. Continue construction of meter assembly "hot box" structure
    2. Begin individual mobile home service pipe connections, w/ heat trace, and insulation
    3. Installation of new drywell
    4. Site restoration to continue

7. **Other or Additional Project Issues:**
    - Sample existing wells, cut casing down below grade- GES

8. **Open Discussion**
    A. Topsoil subject to laboratory analysis per NYS D.E.C. Coordinating obtaining results with previous sampling through D.E.C.
    B. Existing Crosby Hill Mobile Home Park has water pressure between 40 – 48 PSI. Street pressure on the OCW mainline was noted to be 54 PSI, max- pressure varies as Town of Volney Water Tower level decreases. All new meter assemblies have PRV's pre-set at 45 PSI. These are adjustable- one park resident has already requested lower pressure to protect older piping in the Mobile Home, will coordinate in the field.
    C. Scott McDonald w/ GES had correspondence from OCWA requesting new backflow prevention device be certified before the system could be placed in service. Scott McDonald w/ GES had Jerome Fire Equipment Technician on site Monday October 28th, and system is now certified. Paperwork was forwarded to Megan Miller @ EA Engineering and Jeff Proulx @ NCC.

9. **Follow Up/On-going/Action Items**

    - **EA ENGINEERING**
        - Notifications to Residents of water disruption activities 24 hours in advance of work.
        - Certifying disinfection and backflow prevention activities and systems.
    - **GES**
        - Notification to Residents of water disruption activities 24 hours in advance of work.
        - Addition of Seepage Pit replacement behind Maintenance shops NCC
        - Coordinate existing water well sampling and decommissioning, cut casing off below grade.
    - **NYS D.E.C.**

- N/A

- **NYS D.O.H. / OSWEGO COUNTY HEALTH DEPT.**
  - N/A

**10. Next Scheduled Meeting (Progress Meeting No. 05)**

Thursday November 7, 2019 @ 10:00 AM- via teleconference.

# PROGRESS MEETING NO. 05 MINUTES
# Crosby Hill Mobile Home Park (CHMHP)
# Site Number: 1805786

## Thursday, October 31, 2019; 10:00 AM

1. **Sign in/Representatives**

| Name | Company | Present | Via Phone |
|---|---|---|---|
| David Harrington | NYS D.E.C. | | |
| David Chiusano | NYS D.E.C. | | X |
| Kris Keenan | NYS D.E.C. | | |
| Don Conan | EA | | |
| Megan Miller | EA | X | |
| Steven Van Arnam | EA | X | |
| Lindsay Mairs | EA | | |
| Todd Redhead | CHMHP | | |
| Scott McDonald | GES | | X |
| Chad Hill | GES | | |
| Jeff Proulx | NCC | X | |
| Tina Fredette | NCC | | |
| Scott Alderman | NYS D.O.H. | | |
| Garrett Cappon | NYS D.O.H. | | |
| William Havener | Oswego County DOH | | |
| Christopher Wright | Oswego County DOH | | |

2. **Progress Meeting No. 04 minutes-** No comments received regarding the minutes for previous Progress Meeting; the minutes shall be made a part of the project record.

3. **Follow up item status:**
   - **EA ENGINEERING**
     - Completed giving notifications of water disruption activities 24 hours in advance of work, services are completed.
     - Completed certifying new water distribution system for Oswego County Dept. of Health.
     - Confirmed that the Backflow Preventor Assembly in the 'Hot Box' was certified by ABJ Fire Prevention out of Syracuse as coordinated by GES, documents certified by Don Conan, PE and submitted by Megan Miller.
     - Reiterated analytical requirements of topsoil prior to importation.
   - **GES / NCC**
     - Completed giving notifications of water disruption activities 24 hours in advance of work, services will be completed 11/1.
     - Backflow preventer inspected and certified for placement in service per OCWA.
     - Coordinate existing water well sampling and decommissionin, cut casing down below grade
   - **NYS D.E.C**
     -
   - **Oswego County Dept. of Health**
     -

4. **Status of Project Submittals / Work Plans / Construction Schedule**
    a. Submittals- No Outstanding Submittal.
    b. Construction Schedule, Contractor on schedule.

5. **Discussion of work completed to date.** (Jeff Proulx, NCC)
    - Completed installation of individual services, meter pits, and meters for all Units
    - Placed concrete for "hot box" meter assembly structure
    - Have 15 Mobile Home connections remaining
    - Began restoration of roads and driveways

6. **Discussion of Contractor's Scheduled Work for the next week 11/01/19 to 11/08/19.**
    1. Continue construction of meter assembly "hot box" structure
    2. Complete electrical to 'Hot Box' install heaters and electrical outlet
    3. Site restoration to continue, except lawn restoration which will commence in 2020

7. **Other or Additional Project Issues:**
    - Winter shutdown, perform walk thru regarding list of "Items to be Completed" and verify areas to be plowed of snow are secured in advance of Contractor departure

8. **Open Discussion**
    A. NYS D.E.C. request Oswego County Health Department be notified of completion of Mobile Home connections to Public Water Supply. EA Engineering to do so.
    B. Turn new hydrant assembly to face the road.
    C. Scott McDonald w/ GES has coordinated completion of "as-built" record survey drawing.
    D. NCC to provide cast plugs in cast iron meter pit tops.
    E. This will be the last weekly Progress Meeting, notification of work in the spring will be made by EA Engineering.

9. **Follow Up/On-going/Action Items**

    - **EA ENGINEERING**
        - Review analytical of topsoil sampling.
        - Spring notification of restoration work by NCC.

    - **GES**
        - Onsite water well sampling and well closure and cut-off below grade.
        - Addition of Seepage Pit behind Maintenance shops.
        - Complete installation of fully functional water metering system

    - **NYS D.E.C.**
        - N/A

    - **NYS D.O.H. / OSWEGO COUNTY HEALTH DEPT.**
        - N/A

10. **Next Scheduled Meeting-** None scheduled.

# Appendix E

# As-Built Drawings

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LOCATION OF ONSITE SEWAGE DISPOSAL SYSTEM

EXISTING POTABLE WELLS

10-INCH DIA. OCWA WATER MAIN

NEW YORK STATE ROUTE 3

EXISTING GATE VALVE

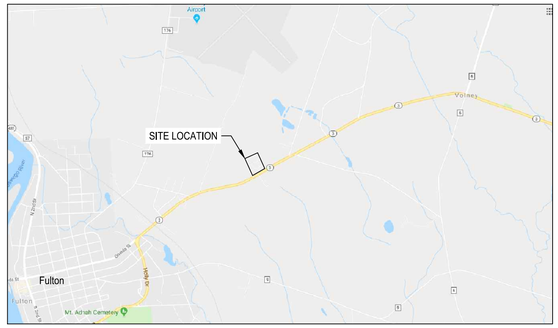
BENCHMARK- TIP OF ARROW ON HYDRANT ELEV=472.10

N

EXISTING CONDITIONS

40 20 0 40 80

GRAPHIC SCALE IN FEET




GENERAL LOCATION MAP

NOT TO SCALE

**PROJECT LOCATION:**
**CROSBY HILL MOBILE HOME PARK**
**2657 STATE ROUTE 3**
**VOLNEY, NY 13069**

**MUNICIPALITIES:**
**TOWN OF VOLNEY**
**OSWEGO COUNTY, NY**

**TAX PARCEL ID:**
**237.01-01-15.12**

**OWNER INFORMATION:**
**TODD REDHEAD**
**SILVER ROCK MOBILE HOME PARK**
**136 COUNTY ROUTE 57**
**PHOENIX, NY 13135**

**DESIGN ENGINEER**
**DONALD CONAN P.E.**
**EA ENGINEERING, P.C.**
**269 WEST JEFFERSON STREET**
**SYRACUSE, NEW YORK 13202**

SURVEY NOTES:

1. NORTH ORIENTATION IS BASED ON THE CENTRAL ZONE OF NEW YORK STATE PLANE COORDINATE SYSTEM NAD83.
2. ELEVATIONS BASED ON NAVD 88 DATUM.
3. FIELD WORK PERFORMED DURING THE MONTHS OF SEPTEMBER, OCTOBER, AND NOVEMBER 2018.
4. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM FIELD SURVEY LOCATION OF UNDERGROUND UTILITY DESIGNATIONS BY THE FIRM OF DELTA GEOPHYSICS OF CATASAUQUA, PA. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN TO THE UNDERSIGNED. SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO ANY CONSTRUCTION.

LEGEND

| | |
|---|---|
| | UTILITY POLE UTILITY POLE W/LIGHT |
| EPNL △ | ELECTRIC PANEL |
| EMTR △ | ELECTRIC METER |
| LP ○ | LIGHT POLE |
| | GUY WIRE |
| UMH ○ | UNKNOWN MANHOLE |
| TPED □ | TELEPHONE PEDESTAL |
| GMTR □ | GAS METER |
| WMH ○ | WATER MANHOLE |
| WV ○ | WATER VALVE |
| HYD ◁ | HYDRANT |
| SMH ○ | SANITARY MANHOLE |
| CO ○ | CLEAN OUT |
| | SIGN |
| MB ○ | MAILBOX |
| CIRF ○ | CAPPED IRON ROD FOUND |
| MH B-1 | MOBILE HOME DESIGNATION |
| W | WATER LINE |
| OHW | OVERHEAD WIRES |
| ST | STORM DRAIN |
| | WOOD FENCE |
| | CHAIN LINK FENCE |
| UE | UNDERGROUND ELECTRIC LINE |
| COMM | UNDERGROUND COMMUNICATION LINE |
| UU | UNKNOWN ANOMALY LINE |
| SS | SANITARY SEWER LINE (DASHED WHERE INFERRED) |
| | PROPERTY FROM TAX MAP |
| | DECIDUOUS TREE |
| | CONIFEROUS TREE |
| 470 / 471 | EXISTING CONTOURS |

WARNING - IT IS A VIOLATION OF NEW YORK EDUCATION LAW, ARTICLE 145, SECTION 7209.2, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY, IF ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL COMPLY WIHT THE REQUIREMENTS OF NEW YORK EDUCATION LAW, ARTICLE 145, SECTION 7209.2.

Department of Environmental Conservation

NEW YORK STATE OF OPPORTUNITY

| NO. | DATE | REVISIONS |
|---|---|---|
| 0 | 1/7/18 | FOR REGULATORY REVIEW |
| 1 | 6/11/19 | REVISED SHEET 2 |
| 2 | 1/13/20 | AS-BUILT PLANS |

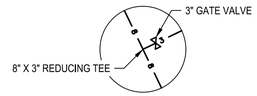
EXISTING CONDITIONS

CROSBY HILL MOBILE HOME PARK
WATER DISTRIBUTION SYSTEM DESIGN
2657 STATE ROUTE 3
VOLNEY, OSWEGO COUNTY, NEW YORK

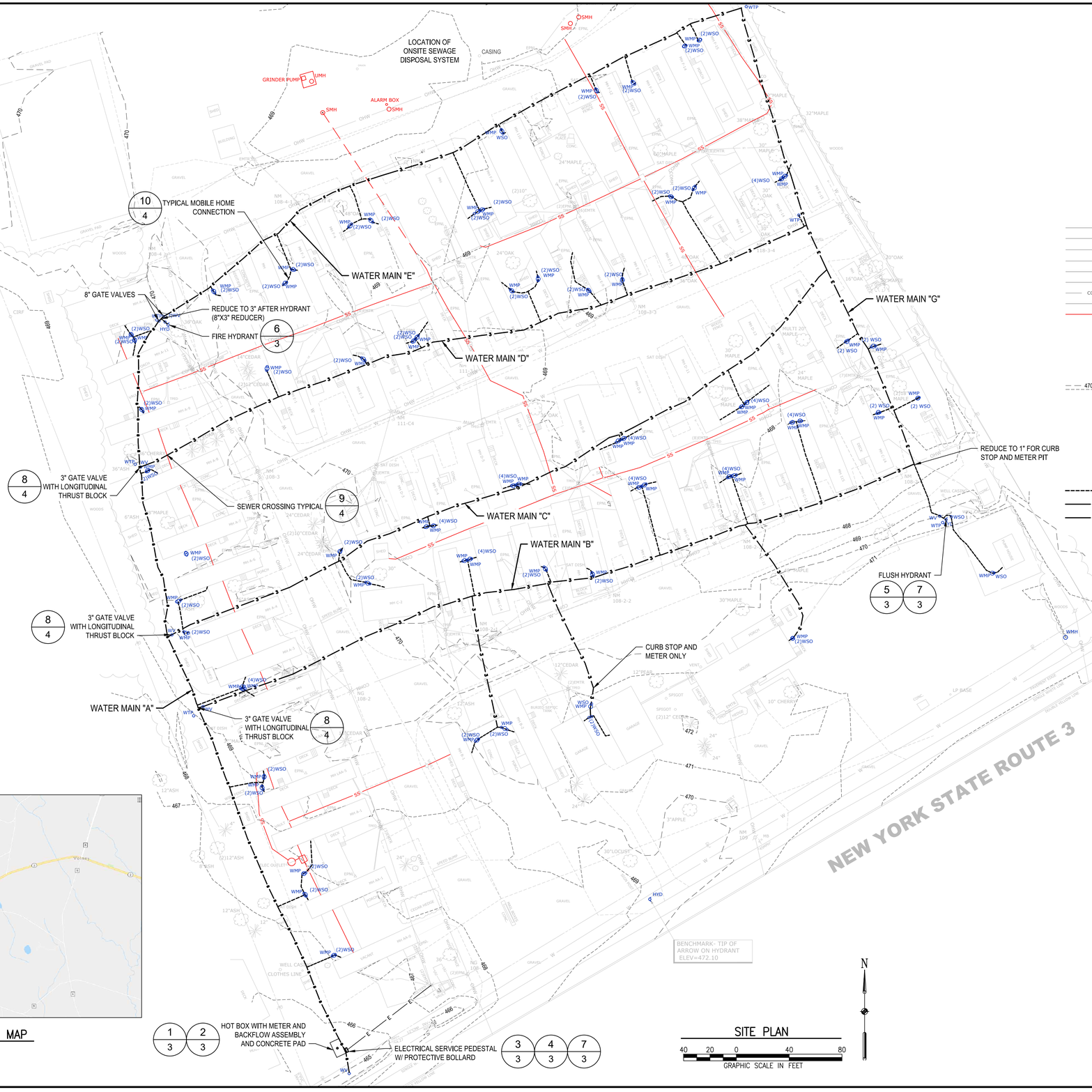
PREPARED BY:
EA ENGINEERING, P.C.
AND ITS AFFILIATE
EA SCIENCE AND TECHNOLOGY

| | |
|---|---|
| EA # | 1490742 |
| FILE | Crosby Hill Mobile Park.dwg |
| DRAWN BY | JRM |
| DATE | FEBRUARY 2019 |
| SCALE | AS SHOWN |

SHEET # 1



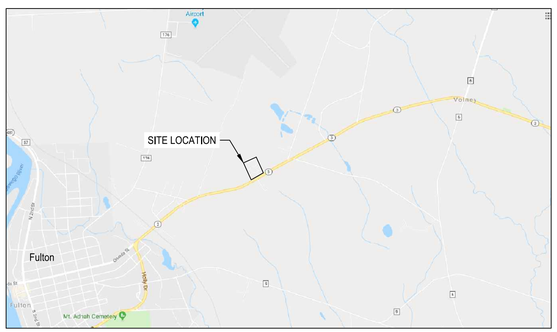

TYPICAL 8" X 3" CONNECTION




SITE PLAN

40 20 0 40 80

GRAPHIC SCALE IN FEET




GENERAL LOCATION MAP

NOT TO SCALE

## LEGEND

| | |
|---|---|
| | UTILITY POLE UTILITY POLE W/LIGHT |
| EPNL | ELECTRIC PANEL |
| EMTR | ELECTRIC METER |
| LP | LIGHT POLE |
| | GUY WIRE |
| UMH | UNKNOWN MANHOLE |
| TPED | TELEPHONE PEDESTAL |
| GMTR | GAS METER |
| WMH | WATER MANHOLE |
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| | SIGN |
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| W | WATER LINE |
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| SS | SANITARY SEWER LINE (DASHED WHERE INFERRED) |
| | PROPERTY FROM TAX MAP |
| | DECIDUOUS TREE |
| | CONIFEROUS TREE |
| 470 471 | EXISTING CONTOURS |
| HYD | AS-BUILT HYDRANT |
| WMP | AS-BUILT WATER METER PIT |
| WSO | AS-BUILT WATER SHUT-OFF |
| WV | AS-BUILT WATER VALVE |
| WMH | AS-BUILT WATER MANHOLE |
| WTP | AS-BUILT WATER TRACER POST |
| | AS-BUILT 1" SERVICE |
| 3 3 | AS-BUILT 3" HDPE WATER PIPE |
| 8 8 | AS-BUILT 8" HDPE WATER PIPE |

DETAIL REFERENCE NUMBER 1/3

DRAWING ON WHICH DETAIL APPEARS

"-" INDICATES TYPICAL OR ON SAME DRAWING

NOTES:
1. MAIN WATER METER AND BACKFLOW PREVENTER ASSEMBLY HOUSED ABOVE GRADE IN A SAFE-T-COVER SERIES 1000 MODEL 1000D-AL ALUMINUM ENCLOSURE WITH FLAPPERS ON DRAIN PORTS.
2. MECHANICAL JOINTS WERE USED BELOW GRADE AND FLANGED JOINTS WERE USED ABOVE GRADE.
3. PIPE AND FITTINGS ARE 8" AND 6" DUCTILE IRON WITHIN ALUMINUM ENCLOSURE.
4. 3" AND 8" MAINS DIRECTIONALLY DRILLED DR-II HDPE PIPE WITH TRACER WIRE, PER ASTM F1962-11.
5. ALL PIPE FITTINGS AND ADAPTERS ARE FREE OF LEAD AND ARE NSF61 CERTIFIED FOR POTABLE WATER WORK.
6. HOUSE ON PROPERTY ON STATE ROUTE 3 CONTAINS THREE UNITS THAT EACH HAVE ITS OWN 3/4" METER AND WATER PRESSURE REDUCING VALVE IN THE BASEMENT OF THE STRUCTURE.

SURVEY NOTES:
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Department of Environmental Conservation

NEW YORK STATE OF OPPORTUNITY

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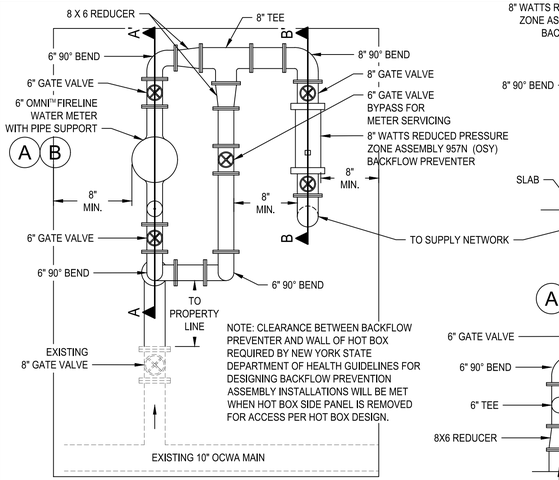
SITE PLAN

CROSBY HILL MOBILE HOME PARK
WATER DISTRIBUTION SYSTEM DESIGN
2657 STATE ROUTE 3
VOLNEY, OSWEGO COUNTY, NEW YORK

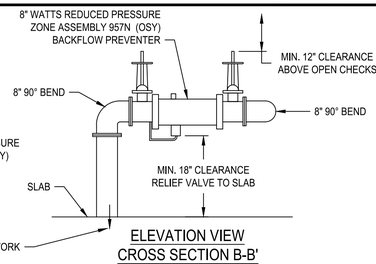
PREPARED BY:
EA ENGINEERING, P.C.
AND ITS AFFILIATE
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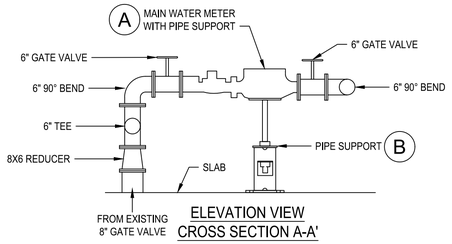
SHEET # 2




PLAN VIEW

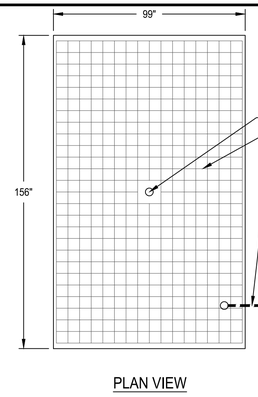



ELEVATION VIEW
CROSS SECTION B-B'

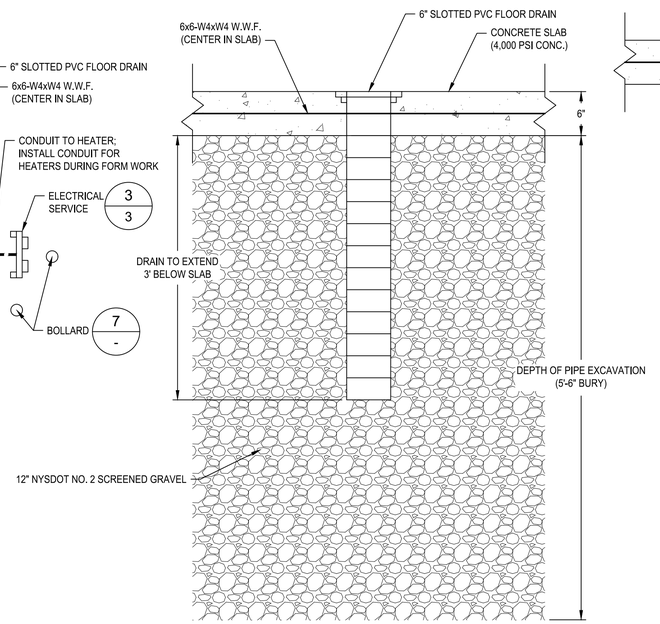



ELEVATION VIEW
CROSS SECTION A-A'

1/2 METER AND BACKFLOW ASSEMBLY DETAIL
NOT TO SCALE

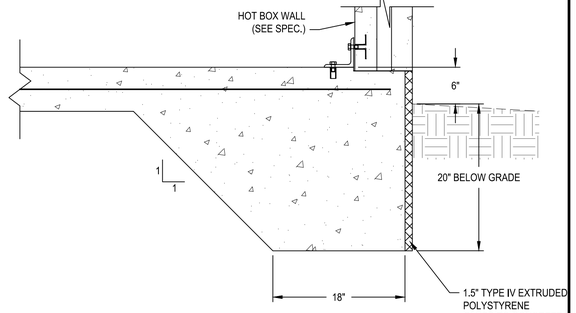



PLAN VIEW

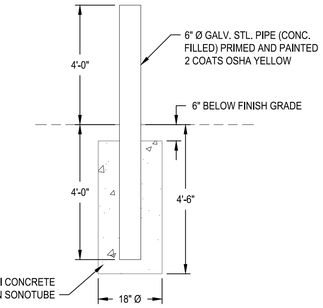



TYPICAL SECTION

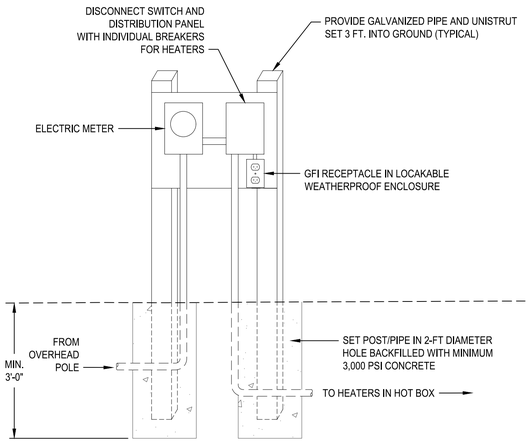
2/2 CONCRETE PAD DETAIL
NOT TO SCALE



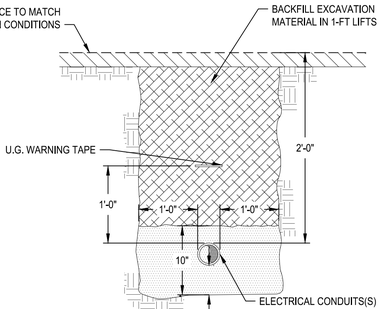

SHALLOW FROST PROTECTED FOUNDATION SECTION



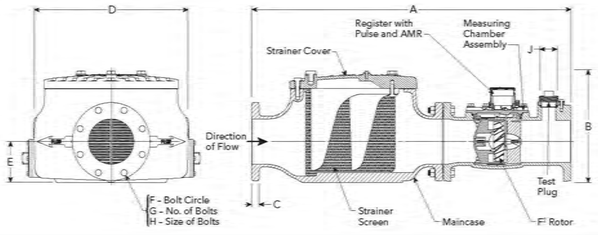

7/2 TYPICAL BOLLARD DETAIL
NOT TO SCALE




3/2 ELECTRIC SERVICE PEDESTAL DETAIL
NOT TO SCALE

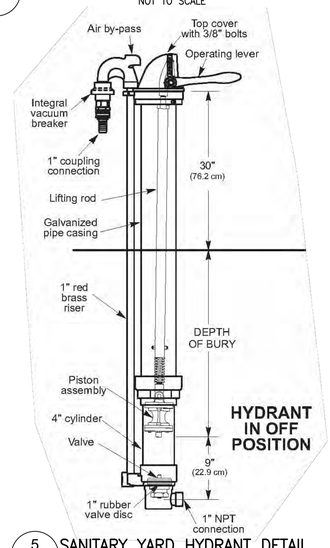



4/2 TYPICAL CONDUIT TRENCH DETAIL
NOT TO SCALE

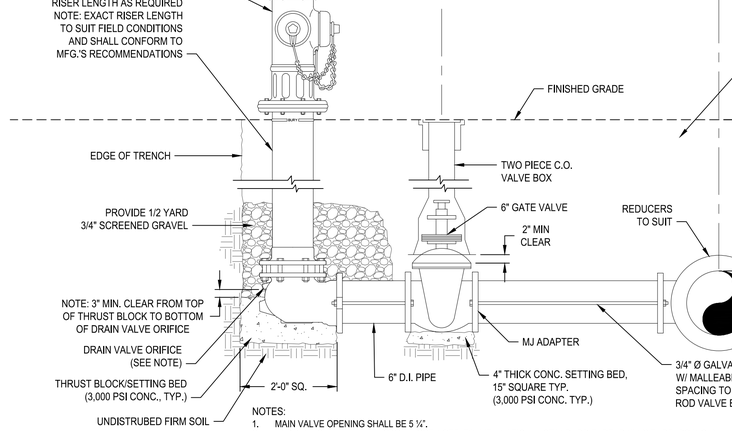



| Meter and Pipe Size | Normal Operating Range | Connections | A | B | C | D | E | F | G | H | J | Net Weight | Shipping Weight | Standard Fireline² |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6" DN 150mm | 3 gpm 2000 gpm .681 m³/hr 454 m³/hr | Flanged | 45" 1143mm | 15-3/4" 400mm | 15/16" 24mm | 22-3/8" 568mm | 5-3/4" 146mm | 9-1/2" 241mm | 8 | 3/4" 19mm | 2" 51mm | 394 lbs. 179 kg. | 449 lbs. 204 kg. | 67-5/8" 1718mm |

A/- 6" MAIN METER DETAIL
NOT TO SCALE
OMNI FIRELINE² (F2) 8" WATER METER
TO BE PROVIDED BY ONONDAGA COUNTY WATER AUTHORITY

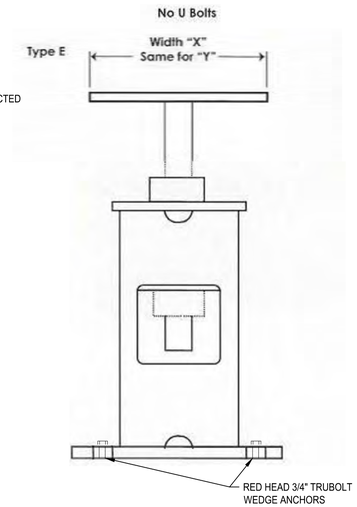



5/2 SANITARY YARD HYDRANT DETAIL
NOT TO SCALE
MURDOCK MODEL M-EXPELO




NOTES:
1. MAIN VALVE OPENING SHALL BE 5 ¼".
2. HYDRANT SHALL HAVE TWO 2 ½" HOSE NOZZLES WITH NATIONAL STANDARD THREAD (7 1/2 THREADS/INCH).
3. HYDRANT SHALL HAVE ONE 4 ½" STEAMER NOZZLE WITH NATIONAL STANDARD THREAD.
4. HYDRANT SHALL HAVE A 6" MECHANICAL JOINT INLET CONNECTION.
5. DEPTH OF BURY SHALL BE 5' 6" FROM BOTTOM OF PIPE TO GROUND LINE.
6. COLOR OF HYDRANT SHALL BE COORDINATED WITH THE VOLNEY FIRE DEPARTMENT.
7. THE EXTERIOR OF THE HYDRANTS, FROM THE GROUND LINE UP, SHALL BE PAINTED IN A TWO-COAT SYSTEM. THE FIRST COAT SHALL BE A PRIMER IN A COLOR OTHER THAN THE FINISHED COAT, SO THE PRIMER COAT CAN BE DISTINGUISHED. THE SECOND COAT FOR THE YELLOW PORTION OF THE HYDRANT SHALL BE OF RUSTOLEUM 3400 SYSTEM ENAMEL SAFETY YELLOW, OR EQUAL WHICH IS APPROVED IN WRITING BY OCWA. THE SECOND COAT FOR THE GREEN PORTION OF THE HYDRANT SHALL BE RUSTOLEUM 3400 SYSTEM ENAMEL FOREST GREEN, OR APPROVED EQUAL. THE BID PRICE SHALL INCLUDE 10 GALLONS OF FINAL YELLOW COAT AND 5 GALLONS OF FINAL GREEN COAT.
8. HOSE NOZZLES AND STEAMER NOZZLES SHALL BE EQUIPPED WITH GASKETS AND SAFETY CHAINS.
9. OPERATING NUT ON STEAMER AND HOSE NOZZLE CAPS SHALL OPEN LEFT, AND SHALL BE 1 1/8" TO 1 ½" PENTAGON.
10. HYDRANT SHALL HAVE A BREAKABLE FLANGE TYPE BARREL.

6/2 FIRE HYDRANT DETAIL
NOT TO SCALE
KENNEDY GUARDIAN K81D




B/- PIPE SUPPORT DETAIL
NOT TO SCALE

HEARTLAND PIPE SUPPORT SYSTEMS TYPE E

WARNING - IT IS A VIOLATION OF NEW YORK EDUCATION LAW, ARTICLE 145, SECTION 7209.2, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY, IF ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL COMPLY WIHT THE REQUIREMENTS OF NEW YORK EDUCATION LAW, ARTICLE 145, SECTION 7209.2.

Department of Environmental Conservation

NEW YORK STATE OF OPPORTUNITY

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 1/7/18 | FOR REGULATORY REVIEW |
| 1 | 6/11/19 | REVISED SHEET 2 |
| 2 | 1/13/20 | AS-BUILT PLANS |

REVISIONS

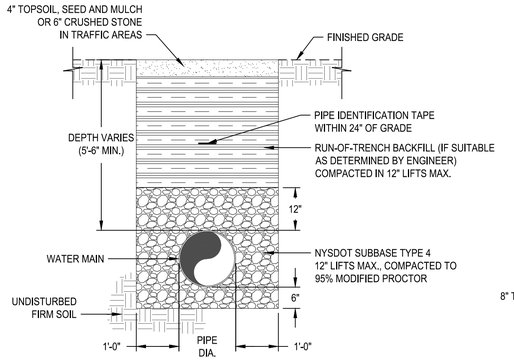
DETAILS I

CROSBY HILL MOBILE HOME PARK
WATER DISTRIBUTION SYSTEM DESIGN
2657 STATE ROUTE 3
VOLNEY, OSWEGO COUNTY, NEW YORK

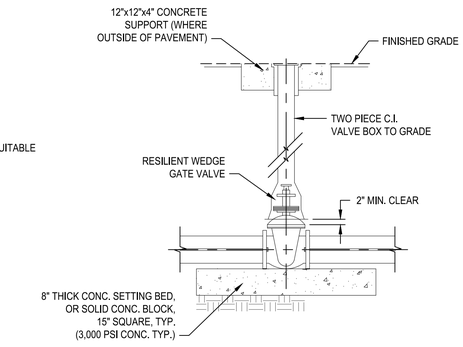
PREPARED BY:
EA ENGINEERING, P.C.
AND ITS AFFILIATE
EA SCIENCE AND TECHNOLOGY

| | |
|---|---|
| EA # | 1490742 |
| FILE | Crosby Hill Mobile Park.dwg |
| DRAWN BY | JRM |
| DATE | FEBRUARY 2019 |
| SCALE | AS SHOWN |

SHEET # 3

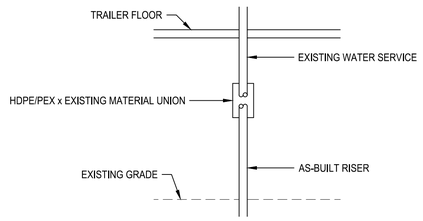



TYPICAL RESTORATION DETAIL
NOT TO SCALE

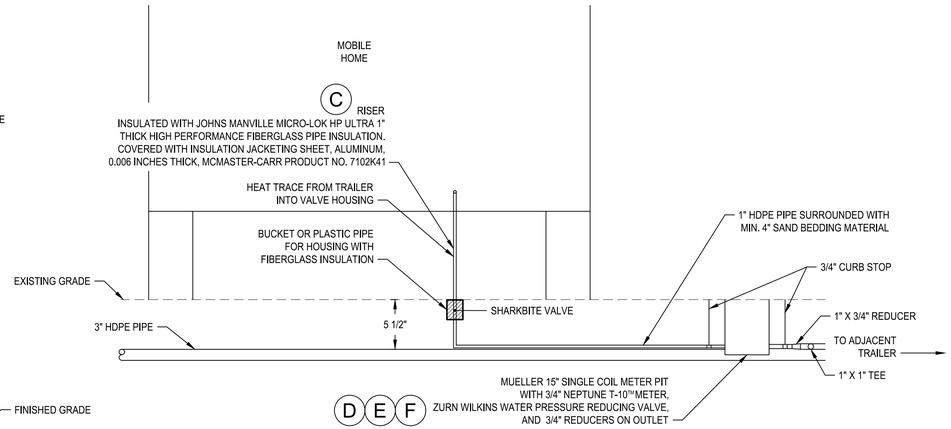



NOTE :
ALL VALVES TO INCLUDE MEGA-LUG RETAINER GLANDS AND BE RODDED BACK TO THE ADJACENT TEE IN THE WATER MAIN. INLINE VALVES NEED NOT BE RODDED. CONTRACTOR TO UTILIZE ¾Ø GALVANIZED STEEL RODS WITH MALLEABLE IRON NUTS AT 180° SPACING.

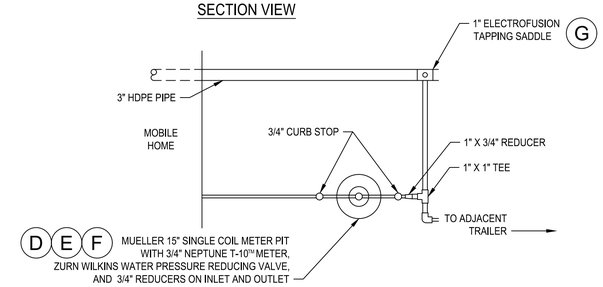
8/2 TYPICAL WATER VALVE DETAIL
NOT TO SCALE



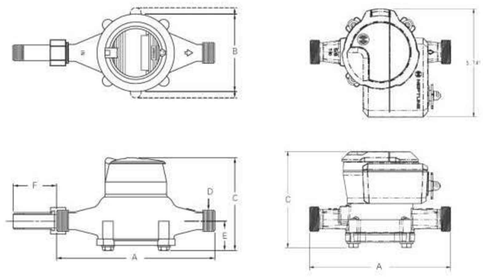

C/- TYPICAL RISER DETAIL
NOT TO SCALE




SECTION VIEW



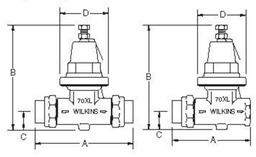

PLAN VIEW




| Meter Size | A in/mm | B in/mm | C-Std. in/mm | C-ARB in/mm | C E-Coder®)R900i™ or E-Coder®)R450i™ | D Threads per inch | D-OD in/mm | E in/mm | F in/mm | Weight lbs/kg |
|---|---|---|---|---|---|---|---|---|---|---|
| ¾" | 9 229 | 4 3/8 111 | 5 1/2 140 | 6 1/4 159 | 6 1/4 159 | 11 1/2 | 1.29 33 | 1 7/8 48 | 2 5/8 67 | 6 2.7 |
| ¾" SL | 7 1/2 911 | 4 3/8 111 | 5 1/2 140 | 6 1/4 159 | 6 1/4 159 | 11 1/2 | 1.29 33 | 1 7/8 48 | 2 5/8 67 | 5 1/2 2.5 |

D/- 3/4" WATER METER DETAIL
NOT TO SCALE

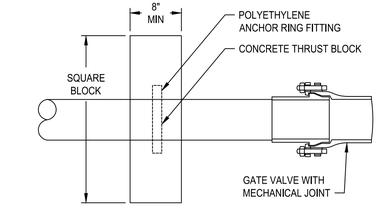
3/4" NEPTUNE T-10™ METER
TO BE PROVIDED BY GES



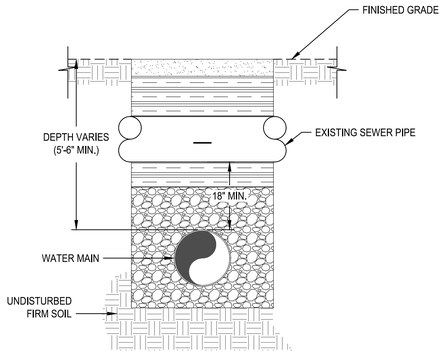

| SIZE | | CONNECTIONS | DIMENSIONS (APPROXIMATE) | | | | | | | | WEIGHT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | | B | | C | | D | | | |
| in. | mm | | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg. |
| 1 | 25 | SINGLE UNION | 5 | 127 | 6 11/16 | 170 | 1 | 25 | 3 3/8 | 86 | 4.1 | 1.9 |
| 1 | 25 | DOUBLE UNION | 5 7/8 | 149 | 6 11/16 | 170 | 1 1/8 | 29 | 3 3/8 | 86 | 4.5 | 2.0 |

E/- WATER PRESSURE REDUCING VALVE DETAIL
NOT TO SCALE
ZURN WILKINS WATER PRESSURE
REDUCING VALVE 1" PIPE
(SEE DETAIL NO. 11)

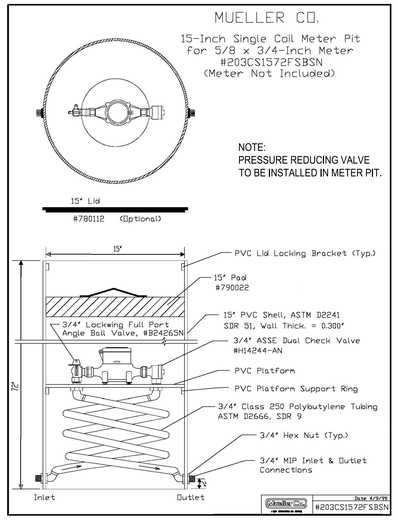
NOTE: PRESSURE RELIEF VALVE - CONTRACTOR SHALL INITIALLY SET PRESSURE RELIEF VALVE AT 30 PSF AND FIELD ADJUST UPON HOOKUP.




11/2 LONGITUDINAL FORCE
THRUST BLOCK DETAIL
NOT TO SCALE




9/2 TYPICAL SEWER CROSSING DETAIL
NOT TO SCALE

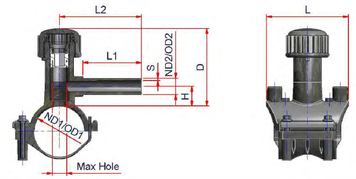



NOTE:
PRESSURE REDUCING VALVE
TO BE INSTALLED IN METER PIT.

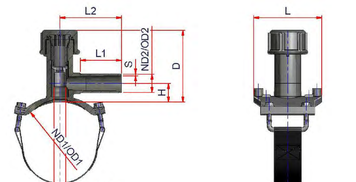
F/- METER PIT DETAIL
NOT TO SCALE
MUELLER 15" SINGLE COIL METER PIT
(SEE DETAIL NO. 11)

10/2 TYPICAL MOBILE HOME CONNECTION DETAIL
NOT TO SCALE

NOTE: CONTRACTOR SHALL INSPECT EACH TRAILER, DETERMINE EXISTING SERVICE PIPE DIAMETER, AND SELECT APPROPRIATE CONNECTION FITTING.




| CODE | ND1 | OD1 | ND2 | OD2 | S | H | L1 | L2 | L | D | Max Hole |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12EIPRES0301C | 3" IPS | 3.500 | 1" CTS | 1.125 | 0.101 | 0.87 | 2.56 | 3.94 | 3.94 | 3.95 | 0.71 |




| CODE | ND1 | OD1 | ND2 | OD2 | S | H | L1 | L2 | L | D | Max Hole |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12EIPRES0834 | 8" IPS | 8.625 | 3/4" IPS | 1.050 | 0.095 | 1.57 | 2.75 | 4.13 | 5.90 | 6.30 | 0.94 |





G/- TAPPING SADDLE DETAILS
NOT TO SCALE
EIOFIT TAPPING TEE
(SEE DETAIL NO. 11)

WARNING - IT IS A VIOLATION OF NEW YORK EDUCATION LAW, ARTICLE 145, SECTION 7209.2, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY, IF ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL COMPLY WIHT THE REQUIREMENTS OF NEW YORK EDUCATION LAW, ARTICLE 145, SECTION 7209.2.

Department of Environmental Conservation

NEW YORK STATE OF OPPORTUNITY

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 1/7/18 | FOR REGULATORY REVIEW |
| 1 | 6/11/19 | REVISED SHEET 2 |
| 2 | 1/13/20 | AS-BUILT PLANS |

REVISIONS

DETAILS II

CROSBY HILL MOBILE HOME PARK
WATER DISTRIBUTION SYSTEM DESIGN
2657 STATE ROUTE 3
VOLNEY, OSWEGO COUNTY, NEW YORK

PREPARED BY:
EA ENGINEERING, P.C.
AND ITS AFFILIATE
EA SCIENCE AND
TECHNOLOGY

| | |
|---|---|
| EA # | 1490742 |
| FILE | Crosby Hill Mobile Park.dwg |
| DRAWN BY | JRM |
| DATE | FEBRUARY 2019 |
| SCALE | AS SHOWN |

SHEET # 4

# Appendix F

# Water Supply Certification and Approval

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# OSWEGO COUNTY HEALTH DEPARTMENT
# WATER SUPPLY CERTIFICATION

Name of District Onondaga County Water Authority

Extension Number Airport Road Water District (WBIF)

Town Volney

Serving Crosby Hill Mobile Home Park

Date of Plan Approval 4/3/19 Date of Start of Construction 9/23/19

WBIF

OCT 24 2019

OSWEGO COUNTY HEALTH DEPT.
ENVIRONMENTAL DIVISION

## FLUSHING

Date of Completion of Construction 10/9/19 Date of Flushing 10/10/19

## DISINFECTION

Date of Disinfection 10/11/19 Chlorine Residual 100 PPM at Start

of Disinfection 10/14/19 Chlorine Residual 70 PPM After 72 Hours at

Completion of Disinfection.

## PRESSURE TEST OF LINE

Date 10/10/19 140 PSI

1 PSI Lost After 1 Hours.

0 Gallons Water to Restore Pressure.

1 Gallons of Allowable Leakage.

$$Q = \frac{LD(P)^{1/2}}{148{,}000}$$

Q = quantity of makeup water, in gallons per hour
L = length of pipe section being tested, in feet
D = nominal diameter of pipe, in inches
P = Average test pressure during the hydrostatic test in pounds per square inch (gauge)

## BACTERIOLOGICAL TEST

Dates of Water Samples 10/15/19

Name of Approved Lab Converse Laboratories, Inc # of samples 8 Dates collected 10/15/19

Sampling Points (attach list) A-Line, D Line, C-Line, B-Line Collected By Terry Souva

Results: Two negative samples per location [X] Yes [ ] No

## CERTIFICATION

I Donald Conan, certify that the above water supply improvement or extension was completed in complete conformancewith the approved plan. The information entered above was the result of actual tests conducted under my direct supervision.

Donald Conan P.E. No. 75666

State NY

Revised: 09-17-03

Form 7.1

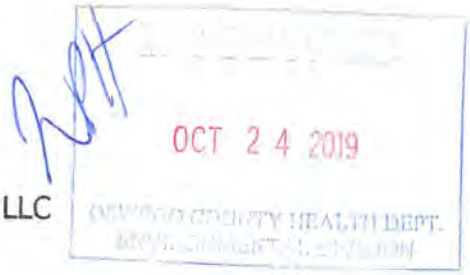
Crosby Hill Mobile Home Park
Disinfection Sampling Locations

A-Line, Trailer A-12
D-Line, Trailer A-8
C-Line, Trailer A-4
B-Line, Trailer A-2



**Converse Laboratories Inc.**
800 Starbuck Ave. Suite B101
Watertown, NY 13601

NYS Approved ELAP
ID# 10708




USPH Certified
ID# 36144

Client: North Country Contractors, LLC
23892 US Rt 11
Calcium, NY 13618

Report Date:
10/17/2019

## Laboratory Report

Sample ID: 1910559 Sample Type: New Line Chl
Sample Date: 10/15/2019 0805 Date Received: 10/15/2019 1128
Sample Site: Volney - A-Line Trl A-12 - 0.4 Sampler: T.S.

| Analysis | Result | Units | Method Code | Lab ID | Date/Time/Tech Tested |
|---|---|---|---|---|---|
| Coliform, Total | NEG | 100ml | SM 21-9223B | 10708 | 10/15/2019 1200 NMB |

Sample ID: 1910560 Sample Type: New Line Chl
Sample Date: 10/15/2019 0809 Date Received: 10/15/2019 1128
Sample Site: Volney - D-Line Trl A-8 - 0.4 Sampler: T.S.

| Analysis | Result | Units | Method Code | Lab ID | Date/Time/Tech Tested |
|---|---|---|---|---|---|
| Coliform, Total | NEG | 100ml | SM 21-9223B | 10708 | 10/15/2019 1200 NMB |

Sample ID: 1910561 Sample Type: New Line Chl
Sample Date: 10/15/2019 0814 Date Received: 10/15/2019 1128
Sample Site: Volney - C-Line Trl A-4 - 0.4 Sampler: T.S.

| Analysis | Result | Units | Method Code | Lab ID | Date/Time/Tech Tested |
|---|---|---|---|---|---|
| Coliform, Total | NEG | 100ml | SM 21-9223B | 10708 | 10/15/2019 1200 NMB |

Sample ID: 1910562 Sample Type: New Line Chl
Sample Date: 10/15/2019 0819 Date Received: 10/15/2019 1128
Sample Site: Volney - B-Line Trl A-2 - 0.4 Sampler: T.S.

| Analysis | Result | Units | Method Code | Lab ID | Date/Time/Tech Tested |
|---|---|---|---|---|---|
| Coliform, Total | NEG | 100ml | SM 21-9223B | 10708 | 10/15/2019 1200 NMB |

Reviewed by/Supervisor : Donna K. Zang KMB

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CONVERSE LABORATORIES, INC
800 Starbuck Ave., Suite B101, Watertown, NY 13601
(315) 788-8388 www.converselabs.com

Terry Souva (315) 783-3088

1ST set

# Chain of Custody

Page 1 of 2

| | |
|---|---|
| Client Name: North Country Contractors, LLC | Client Project ID / PO#: Volney |
| Client Address: 23892 US RTE 11 | |
| Calcium, NY 13616 | |
| Phone #: (315) 785-6849 | Fax#: (315) 788-4134 |
| E-Mail address: Tina@ncc-llc.com | |
| Contact/Report to: Tina Fredette | |
| Sampler: Terry (315) 783-3088 | |

**Matrix Codes**
DW= Drinking Water
GW=Ground Water WW=Wastewater
SL=Sludge SW=Surface Water SO=Soil

**Preservative Codes**
1= $Na_2S_2O_3$ 2= HCl 3= $H_2SO_4$
4= $HNO_3$ 5= NaOH
6= Asorbic Acid 7= $NH_4CL$
8= Unpres. 9=

**Sample Information:**
- [ ] Finished
- [ ] Raw
- [X] Chlorinated
- [ ] UV
- [ ] OTHER: New Water Main

PLEASE NOTE: Reports will be forwarded to your DOH.

**NOTES TO LABORATORY**
Normal TAT [ ]
Rush TAT [X] RUSH!
Date Needed: ____ a.m. / p.m.

| Date Collected | Time Collected | Sample Identification | G= Grab C=Composite | Matrix - see codes above | Chlorine Residual | List Preservative Code Below | Subcontracted | ANALYSIS / TEST REQUESTED | SAMPLE ID # (lab use only) |
|---|---|---|---|---|---|---|---|---|---|
| 10/15 | 8:05 | A-Line Tr1 A-13 | G | DW | .4 | 1 | N | Coliform & Ecoli | 559 |
| 10/15 | 8:09 | D-Line Tr1 A-8 | G | DW | .4 | 1 | | " | 560 |
| 10/15 | 8:14 | C Line Tr1 A-4 | G | DW | .4 | 1 | | " | 561 |
| 10/15 | 8:19 | B Line Tr1 A-2 | G | DW | .4 | 1 | | " | 562 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| Relinquished by: | Date | Time | Received by: | Date | Time | Rec'd Temp° | ICE? | AUTHORIZED RECIPIENTS & CONTACT INFO: |
|---|---|---|---|---|---|---|---|---|
| Terry L Souva | 10/15 | 11:38 | Sue Hoffman | 10/15/19 | 1120 | 5 | (Yes) No | |
| | | | | | | | | SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS (YES) NO IF NO, SEE ATTACHED SHEET |

Doc. # 357
1/18/2015
Rev. # 115
Page 1 of 1

Amt. Due: ____ Amt. Paid: 0

Cash ____ Check# ____ CC ____

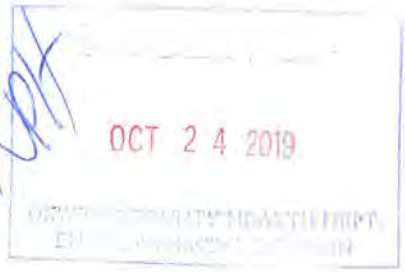
Initial Review: sh 10/15/19
Transcriptual Rev.: [illegible] 10/17/19
Final Review: [illegible] 10/17/19

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**Converse Laboratories Inc.**
800 Starbuck Ave. Suite B101
Watertown, NY 13601

NYS Approved ELAP
ID# 10708

USPH Certified
ID# 36144




Client: North Country Contractors, LLC
23892 US Rt 11
Calcium, NY 13618

Report Date:
10/17/2019

## Laboratory Report

Sample ID: 1910563 Sample Type: New Line Chl
Sample Date: 10/15/2019 0824 Date Received: 10/15/2019 1128
Sample Site: Volney - A-Line Trl A-12 - 0.4 Sampler: T.S. - Set # 2

| Analysis | Result | Units | Method Code | Lab ID | Date/Time/Tech Tested |
|---|---|---|---|---|---|
| Coliform, Total | NEG | 100ml | SM 21-9223B | 10708 | 10/15/2019 1200 NMB |

Sample ID: 1910564 Sample Type: New Line Chl
Sample Date: 10/15/2019 0830 Date Received: 10/15/2019 1128
Sample Site: Volney - D-Line Trl A-8 - 0.4 Sampler: T.S. - Set # 2

| Analysis | Result | Units | Method Code | Lab ID | Date/Time/Tech Tested |
|---|---|---|---|---|---|
| Coliform, Total | NEG | 100ml | SM 21-9223B | 10708 | 10/15/2019 1200 NMB |

Sample ID: 1910565 Sample Type: New Line Chl
Sample Date: 10/15/2019 0833 Date Received: 10/15/2019 1128
Sample Site: Volney - C-Line Trl A-4 - 0.4 Sampler: T.S. - Set # 2

| Analysis | Result | Units | Method Code | Lab ID | Date/Time/Tech Tested |
|---|---|---|---|---|---|
| Coliform, Total | NEG | 100ml | SM 21-9223B | 10708 | 10/15/2019 1200 NMB |

Sample ID: 1910566 Sample Type: New Line Chl
Sample Date: 10/15/2019 0840 Date Received: 10/15/2019 1128
Sample Site: Volney - B-Line Trl A-2 - 0.4 Sampler: T.S. - Set # 2

| Analysis | Result | Units | Method Code | Lab ID | Date/Time/Tech Tested |
|---|---|---|---|---|---|
| Coliform, Total | NEG | 100ml | SM 21-9223B | 10708 | 10/15/2019 1200 NMB |

Reviewed by/Supervisor : Donna K. Zang KMB

NCC 10.15.19 Cont'd

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CONVERSE LABORATORIES, INC
800 Starbuck Ave., Suite B101, Watertown, NY 13601
(315) 788-8388 www.converselabs.com

Terry Souva (315) 783-3088

2nd set

# Chain of Custody

Page 2 of 2

Client Name: North Country Contractors, LLC
Client Address: 23892 US RTE 11
Calcium, NY 13618
Client Project ID / PO#: Volney
Phone #: (315) 785-5849 Fax#: (315) 788-4134
E-Mail address: Tina@ncc-llc.com
Contact/Report to: Tina Fredette
Sampler: Terry (315) 783-3088

**Matrix Codes**
DW= Drinking Water
GW=Ground Water WW=Wastewater
SL=Sludge SW=Surface Water SO=Soil

**Preservative Codes**
1= $Na_2S_2O_3$ 2= HCl 3= $H_2SO_4$
4= $HNO_3$ 5= NaOH
6= Asorbic Acid 7= $NH_4CL$
8= Unpres. 9=

**Sample Information:**
☐ Finished ☐ Raw
☒ Chlorinated ☐ UV
☐ OTHER: New Water Main

PLEASE NOTE: Reports will be forwarded to your DOH.

NOTES TO LABORATORY
Normal TAT ☐
Rush TAT ☒
Date Needed: a.m. / p.m.

| Date Collected | Time Collected | Sample Identification | G = Grab C = Composite | Matrix - see codes above | Chlorine Residual | List Preservative Code Below | Subcontracted | ANALYSIS / TEST REQUESTED | SAMPLE ID # (lab use only) |
|---|---|---|---|---|---|---|---|---|---|
| 10/15 | 8:24 | A-line Tr/A-12 | G | DW | .4 | | N | Coliform & Ecoli | 563 |
| 10/15 | 8:30 | D-line Tr/A-8 | G | DW | .4 | | N | " | 564 |
| 10/15 | 8:33 | C-line Tr/A-4 | G | DW | .4 | | N | " | 565 |
| 10/15 | 8:40 | B-line Tr/A-2 | G | DW | .4 | | N | " | 566 |

| Relinquished by: | Date | Time | Received by: | Date | Time | Rec'd Temp° | ICED? | AUTHORIZED RECIPIENTS & CONTACT INFO: |
|---|---|---|---|---|---|---|---|---|
| Terry L Souva | 10/15 | 11:28 | Sue Hoffman | 10/15/19 | 1128 | 5 | (Yes) No | |

SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS
(YES) NO
IF NO, SEE ATTACHED SHEET

Doc. # 357
1/18/2015
Rev. # 115
Page 1 of 1

Amt. Due: _____ Amt. Paid: 0

Cash _____ Check# _____ CC _____

Initial Review: SH 10/15/19
Transcriptual Rev.: DKS 10/15/19
Final Review: [illegible]

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# Appendix G

# Backflow Prevention Device Report DOH-1013

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NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Public Water Supply Protection

# Report on Test and Maintenance of Backflow Prevention Device

For the year 2019
☑ Initial test - *Complete entire form*
☐ Annual test - *Complete Part A only*

## Part A

**Please use a separate form for each device.**

| Public Water Supply | Account No. | County | Block | Lot |
|---|---|---|---|---|
| | | | | |

Facility Name: Crosby Hill Mobile Home Park
Address: 2667 St Rt 3 (street) Fulton (city) NY (zip)
Location of Device: Outside Hot Box

| Device Information | Manufacturer | Type | Model | Size (in inches) | Serial Number |
|---|---|---|---|---|---|
| | Watts | ☑ RPZ ☐ DCV | 957N | 8" | TH1851 |

| | Check Valve No. 1 | Check Valve No. 2 | Differential Pressure Relief Valve | Line Pressure 45 psi |
|---|---|---|---|---|
| **Test before repair** | Leaked ☐ Closed tight ☑ Pressure drop across first check valve 9.6 psid | Leaked ☐ Closed tight ☑ | Opened at 5.8 psid | Date 10 / 28 / 19 (m / d / y) |
| **Describe repairs and materials used** | | | | Repaired by Name ____ Lic # ____ Date repaired ____ (m / d / y) |
| **Final test** | Closed tight ☐ Pressure drop across first check valve ____ psid | Closed tight ☐ | Opened at ____ psid | Date ____ (m / d / y) |

| Water Meter Number | Meter Reading | Type of Service: (check one) |
|---|---|---|
| 85740435 | 0 new | ☑ Domestic ☐ Fire ☐ Other ____ |

**Remarks** (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgap, etc.)

Certification: This device ☑ meets, ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing.
I hereby certify the foregoing data to be correct.

| Print Name | Certified Tester No. | Signature | Expiration Date |
|---|---|---|---|
| Patrick Hoffman | 11467 | | 06/30/2019 |

Property owner's (or owner's agent) certification that test was performed:

| Print Name | Title | Signature | Telephone |
|---|---|---|---|
| Chad Hill | Geologist | Chad Hill | (607) 2853562 |

## Part B

Certification that installation is in accordance with the approved plans. (To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation has been made in accordance with the approved plans.

| Name | Donald Conan, PE | Title | V.P. | Date 10 / 29 / 19 (m / d / y) | NYS DOH Log # |
|---|---|---|---|---|---|
| License Number | 75666 | Phone | (315) 431-4610 | | |

Representing: EA Engineering, PC
Address: 269 W. Jefferson St
City: Syracuse State: NY Zip: 13202
Signature: Donald Conan

Describe minor installation changes

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of testing of the device.

DOH-1013 (9/91) **Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.**

WHITE - OFFICE COPY YELLOW - CUSTOMER COPY PINK - NYS DEPARTMENT OF HEALTH

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# Appendix H

# Completed Works Certification and Approval

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Print Form

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Water Supply Protection

# Engineer's Certification of Public Water Improvement Project Completion

**New York State Department of Health Bureau of Water Supply Protection (NYSDOH BWSP)**
**Application for an Approval of Completed Works**

1. Public Water System Name: Crosby Hill Mobile Home Park 2. PWSID Number: NA - private service from OCWA

3. Project Location Crosby Hill Mobile Home Park (City, Town, Village) Volney County Oswego

4. Drinking Water State Revolving Fund (DWSRF) Project: ☐ Yes ☑ No If Yes, DWSRF Project Number: _____

5. Plans approved by NYSDOH BWSP: ☑ Yes ☐ No If Yes, NYSDOH BWSP Project Log Number: _____

Plans approved by : (check all that apply)

☐ NYSDOH Regional Office ☑ NYSDOH District Office ☑ County Health Department

6. Construction Start Date: 9/23/19 7. Substantial Construction Completion Date: 11/1/19

(Provide a copy of the notice to proceed with this application)

8. Project Description: Connect to existing OCWA 10" Gate Valve on County Route 3; approved RPZ and 6" OCWA meter installed above grade in Hot Box. 8" main installed to new fire hydrant, 3" mains elsewhere throughout the park. HDPE pipe directionally drilled for installation. Total of 69 services installed, to mobile homes, existing apartments, and site maintenance buildings.

9. Pursuant to the NYS Sanitary Code Part 5, Subpart 5-1, Section 5-1.22 I hereby request that an Approval of Completed Works be issued for the above referenced project. By affixing my seal and signature to this document I certify that the construction of the referenced project including any required environmental mitigating measures was substantially completed in accordance with the approved plans and specifications or approved amendments thereto. In addition, a set of the final "As-Built" record drawings and operation and equipment manuals, have been, or will be, provided to the project owner.

10. Deviations from approved plans: None

(Attach separate sheets if additional space is needed)

11. Engineering Firm: EA Engineering, P.C.
(Name of Firm)

(Print Contact Person Name) Donald Conan (Phone Number) 315-431-4610

Donald Conan

NYS Engineers Seal and Signature

STATE OF NEW YORK
DONALD FRANCIS CONAN III
LICENSED PROFESSIONAL ENGINEER
75666

Date Signed: 11/14/19

If the box for he NYSDOH BWSP is checked Yes in item 5:

Send completed form to:
NYSDOH BWSP
Empire State Plaza
Corning Tower, Room 1168
Albany, NY 12237

or E-Mail to:
bpwsp@health.state.ny.us

If the box for he NYSDOH BWSP is not checked Yes in item 5, then send the completed form to the appropriate Regional office, District office or the County Health Department that approved the plans.

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Water Supply Protection

# Approval of Completed Works For Public Water Supply Improvement

This approval is issued under the provisions of 10 NYCRR, Part 5:

| | |
|---|---|
| Crosby Hill Mobile Home Park | |
| Town of Volney – 2657 State Route 3 | |
| Oswego County | Water District (specific area served): NY 3304336 (Airport Rd WD) |

Plans for the construction of this project were approved on Mo 4 / Day 13 / Yr 2019.

This approval for completed works is issued subject to the following conditions:

This approval of completed works has been issued on behalf of the New York State Department of Health (NYSDOH) based on notification from Donald Conan, P.E., from EA Engineering, P.C., that the new water distribution system and appurtenances were constructed in substantial conformance with the approved plans, specifications, and contract documents for the project.

**ISSUED FOR THE STATE COMMISSIONER OF HEALTH**

William P. Havener Jr., M.S., P.E.
Designated Representative

Mo 11 / Day 19 / Yr 2019
Date

**Please print**

| | |
|---|---|
| Name | William P. Havener Jr., M.S., P.E. |
| Title | Public Health Engineer |

# Appendix I

# Restoration Field Documentation and Cut Sheets

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## Miller, Megan

**From:** Scott McDonald <SMcDonald@gesonline.com>
**Sent:** Tuesday, August 11, 2020 8:01 AM
**To:** Chiusano, David (DEC)
**Cc:** Miller, Megan; sc.mcdonald@outlook.com
**Subject:** NYSDEC Crosby Hill Daily Update 08-10-2020

On 08-10-2020, GES began restoration of the Crosby Hill mobile home park. Below is a summary of this day's activities.

TREC crew began work storing equipment, as well as performed site walk to delineate work zones and soil storage areas. Crew leveled/spread excess soil from around previously abandoned wells 2 and 5. Topsoil began arriving around 1100 and crew started site restoration activities in rutted and settled areas on NE side of site, East of A-line. TREC crew started at Unit A-03 moving north, spreading and leveling topsoil in all affected areas, and ended at Hotbox in NE corner of site, in which that area has now been partially restored.

Total topsoil deliveries = 3 (54cubic yards)
Total deliveries used = 2 (36 yards)
One pile covered with poly and unused
Total square footage covered = 5808.25 sq ft

Planned work for 08-11-2020
Completion of the right of way restoration, then continue to move down the A line of homes.

**Scott McDonald**
Geologist/Project Manager

**Office:** 800.220.3069 ext. 4066
**Mobile:** 607.765.7271
SMcDonald@GESonline.com

Groundwater & Environmental Services, Inc.
5 Technology Place, Suite 4
East Syracuse, NY 13057

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**Have a Gneiss Day**

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## Miller, Megan

**From:** Scott McDonald <SMcDonald@gesonline.com>
**Sent:** Wednesday, August 12, 2020 8:23 AM
**To:** Chiusano, David (DEC)
**Cc:** Miller, Megan; Scott McDonald
**Subject:** RE: NYSDEC Crosby Hill Daily Update 08-11-2020
**Attachments:** Crosby Hill 08.10.2020 photo log (A Line).pdf; Crosby Hill 08.11.2020 photo log (Hot Box, end of A line start of F line).pdf

On 08-11-2020, GES began restoration of the Crosby Hill mobile home park. Below is a summary of this day's activities.

Crew continued site restoration activities, spreading topsoil in rutted and settled areas on East side of site, along A-line, now completed. Topsoil spreading is also complete along entirety of F-line on South side of site, and at two units in E-line. TREC foreman expects to have all topsoil spreading done by the end of the day, Thursday, and then can began spreading stone where needed. Straw has been laid as mulch in the NE corner of site, by hotbox, to stabilize freshly laid soil. DOT inspector did not arrive on site to our knowledge. Foreman expects to only need 2-3 more loads of topsoil delivered.

Daily topsoil deliveries = 3 (54cubic yards)
Total topsoil deliveries = 6 (108 cubic yards)
Total loads used today = 3 (54 yards)
One pile covered with poly and unused
Total square footage covered = 8,226.875 sq ft

To date we have applied 914.097 square yards of the estimated 2500 square yards that were included in the bid estimate. Attached please find a photo log showing site progress. Please feel free to contact GES with any questions.

**Scott McDonald**
Geologist/Project Manager

**Office:** 800.220.3069 ext. 4066
**Mobile:** 607.765.7271
SMcDonald@GESonline.com

**Have a Gneiss Day**

---

**From:** Scott McDonald
**Sent:** Tuesday, August 11, 2020 8:01 AM
**To:** 'Chiusano, David (DEC)' <david.chiusano@dec.ny.gov>
**Cc:** mmiller@eaest.com; 'sc.mcdonald@outlook.com' <sc.mcdonald@outlook.com>
**Subject:** NYSDEC Crosby Hill Daily Update 08-10-2020

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TREC crew began work storing equipment, as well as performed site walk to delineate work zones and soil storage areas. Crew leveled/spread excess soil from around previously abandoned wells 2 and 5. Topsoil began arriving around 1100 and crew started site restoration activities in rutted and settled areas on NE side of site, East of A-line. TREC crew started at Unit A-03 moving north, spreading and leveling topsoil in all affected areas, and ended at Hotbox in NE corner of site, in which that area has now been partially restored.

Total topsoil deliveries = 3 (54cubic yards)
Total deliveries used = 2 (36 yards)
One pile covered with poly and unused
Total square footage covered = 5808.25 sq ft

Planned work for 08-11-2020
Completion of the right of way restoration, then continue to move down the A line of homes.

**Scott McDonald**
Geologist/Project Manager

**Office:** 800.220.3069 ext. 4066
**Mobile:** 607.765.7271
SMcDonald@GESonline.com

Groundwater & Environmental Services, Inc.
5 Technology Place, Suite 4
East Syracuse, NY 13057

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F4





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## Miller, Megan

**From:** Scott McDonald <SMcDonald@gesonline.com>
**Sent:** Monday, August 17, 2020 8:34 AM
**To:** Chiusano, David (DEC)
**Cc:** Miller, Megan
**Subject:** RE: NYSDEC Crosby Hill Daily Update 08-12, 13 &14 -2020
**Attachments:** Crosby Hill 08.12.2020 photo log.pdf; Crosby Hill 08.13.2020 photo log.pdf; Crosby Hill 08.14.2020 photo log.pdf

On August 12th, 13th and 14th, GES and Trec continue the restoration of the Crosby Hill Mobile home park. Below is a summary of those these three days of site work and a summary of remaining work.

August 12, 2020,

Crew continued site restoration activities, spreading topsoil in rutted and settled areas along E-line, now completed. Topsoil spreading is also complete along entirety of D-line. TREC foreman still expects to have all topsoil spreading done by the end of tomorrow, Thursday, and then can began spreading stone where needed. DOT inspector did not arrive on site again to our knowledge. Foreman ordered 1A Stone slated for delivery tomorrow.

Daily topsoil deliveries = 3 (54cubic yards)
Total topsoil deliveries = 9 (162 cubic yards)
Total loads used today = 2.5 (45 yards)
1.5 load pile covered with poly and unused
Total square footage covered today = 6255.75 sq ft

August 13, 2020,

Today's site work included continued topsoil spreading at all rutted and previously excavated areas along C-row and B-row, now completed. This marks the completion of topsoil placement at all residences within the park. Crew also finished spreading soil around flush hydrant by pump house in NW corner of site, as well as the ruts created behind dumpsters and fenced in area in the SE corner of site. Plans were made for stone placement in drives/walkways, along with under edge of skirting, where soil settled from previous excavation for water line hookups in bucket under homes, whereas many were addressed today. No more topsoil deliveries needed for restoration. Forman will be finishing last area in SW corner of site, near spoil piles tomorrow and then beginning to spread stone where need. Stone to be delivered tomorrow morning.

Daily topsoil deliveries = 1 (18cubic yards)
Total topsoil deliveries = 10 (180 cubic yards)
Total loads used today = 1.5 (27 yards)
1.0 load pile covered with poly and unused
Total square footage covered today = 2467.4375 sq ft

August 14, 2020,

Today's site work included continued gravel topsoil spreading at previously excavated areas by pump house in NW corner of site, now completed, including seed, straw and watering. This marks the

completion of topsoil placement, excluding work area near DI unit. Gravel has been placed at all necessary locations, also excluding area near DI unit. Next week will consist of laying seed and straw throughout park and then initial watering. Trec expects to be done will all of this by the end of day  Wednesday at the latest.

Total topsoil deliveries = 10 (180 cubic yards)
Total loads used today = 0.5 (9 yards)
0.5 load pile covered with poly and unused
Total square footage covered today = 338.75 sq ft
1 Load of stone @22.83 tn (approximately half used)
Stone covered 2022.0 sq ft

Summary,

As of August 14, 2020, a total of 1,920.979 square yards of an estimated 2,500 square yards of top soil has been placed. At this time it is believed we have address all areas that require top soil.  Making this phase of restoration complete until the drainage unit is replaced.

A total of 224.66 square yards  of gravel has been placed of the anticipated 275 square yards.  Again this phase of restoration has been complete until the drainage unit it installed.  The planned scope of work for this week is to place straw and grass seed.  Trec expects to have this phase completed by Wednesday.  At this time the drainage unit is still on back order,  GES and Trec will demobilize from site this week with plans to return as soon at the units is available again.  at this time Jefferson concrete is telling us we can expect the drainage unit in two weeks.

Attached please find a photo log for the last three days of work.

Please feel free to contact GES with any questions.

Scott

**Scott McDonald**
Geologist/Project Manager

**Office:** 800.220.3069 ext. 4066
**Mobile:** 607.765.7271
SMcDonald@GESonline.com

**Have a Gneiss Day**

---

**From:** Scott McDonald <SMcDonald@gesonline.com>
**Sent:** Wednesday, August 12, 2020 8:23 AM
**To:** Chiusano, David (DEC) <david.chiusano@dec.ny.gov>


















CAUTION
CAUTION







## Miller, Megan

**From:** Scott McDonald <SMcDonald@gesonline.com>
**Sent:** Tuesday, August 18, 2020 8:17 AM
**To:** Chiusano, David (DEC)
**Cc:** Miller, Megan
**Subject:** RE: NYSDEC Crosby Hill Daily Update 08-17-2020
**Attachments:** Crosby Hill 08.17.2020 photo log.pdf

On August 17, 2020 GES and Trec, completed the spreading of grass seed and mulch along both the A and F rows , including the areas by the hotbox, dumpsters and soil pile storage. Additionally the watering of the seeded areas has been completed. The Crew is using onsite water to water the grass seed. At this time the crew has a stretch goal of completing the straw and seed placement today provided the weather hold out. if they are unable to complete the work today they anticipate the completion of the seeding and straw placement tomorrow. Upon the completion of the straw placement and seeding Trec and GES will demobilize from site until the DI is available from Jefferson concrete.

Attached please find photos taken on August 17, 2020 of the site restoration progress.

Please feel free to contact GES with any questions or concerns.

**Scott McDonald**
Geologist/Project Manager

**Office:** 800.220.3069 ext. 4066
**Mobile:** 607.765.7271
SMcDonald@GESonline.com

**Have a Gneiss Day**

---

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**Sent:** Monday, August 17, 2020 8:34 AM
**To:** Chiusano, David (DEC) <david.chiusano@dec.ny.gov>
**Cc:** mmiller@eaest.com
**Subject:** RE: NYSDEC Crosby Hill Daily Update 08-12, 13 &14 -2020

On August 12th, 13th and 14th, GES and Trec continue the restoration of the Crosby Hill Mobile home park. Below is a summary of those these three days of site work and a summary of remaining work.

August 12, 2020,

Crew continued site restoration activities, spreading topsoil in rutted and settled areas along E-line, now completed. Topsoil spreading is also complete along entirety of D-line. TREC foreman still expects to have all topsoil spreading done by the end of tomorrow, Thursday, and then can began spreading stone where needed. DOT inspector did not arrive on site again to our knowledge. Foreman ordered 1A Stone slated for delivery tomorrow.

Daily topsoil deliveries = 3 (54cubic yards)

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## Miller, Megan

**From:** Scott McDonald <SMcDonald@gesonline.com>
**Sent:** Wednesday, August 19, 2020 8:08 AM
**To:** Chiusano, David (DEC)
**Cc:** Miller, Megan
**Subject:** RE: NYSDEC Crosby Hill Daily Update 08-18-2020
**Attachments:** Crosby Hill 08.18.2020 photo log.pdf

On August 18, 2020, GES and Trec completed site restoration in all areas requiring restoration and have demobilized from until such time that the dry well becomes available.

As if yesterday, the property owner has requested two changes to the site restoration scope. Mr. Redhead would like additional #2 stone added to the areas between his two storage buildings. This seems like an reasonable request as this area was disturbed installing the additional water meters for these buildings.

Second, Mr. Redhead, has asked that additional washed stone be placed around each of the valve buckets beneath each home. GES and Trec have added additional stone in the area of valve buckets that experienced visible settling.

At this time GES is asking for input regarding the two above add on items.

Attached please find the photo log for August 18,2020.

Should you have any questions please feel free to contact GES at (800) 220-3069.

**Scott McDonald**
Geologist/Project Manager

**Office:** 800.220.3069 ext. 4066
**Mobile:** 607.765.7271
SMcDonald@GESonline.com

**Have a Gneiss Day**

---

**From:** Scott McDonald
**Sent:** Tuesday, August 18, 2020 8:17 AM
**To:** 'Chiusano, David (DEC)' <david.chiusano@dec.ny.gov>
**Cc:** 'mmiller@eaest.com' <mmiller@eaest.com>
**Subject:** RE: NYSDEC Crosby Hill Daily Update 08-17-2020

On August 17, 2020 GES and Trec, completed the spreading of grass seed and mulch along both the A and F rows , including the areas by the hotbox, dumpsters and soil pile storage. Additionally the watering of the seeded areas has been completed. The Crew is using onsite water to water the grass seed. At this time the crew has a stretch goal of completing the straw and seed placement today provided the weather hold out. if they are unable to complete the work today they anticipate the completion of the seeding and straw placement tomorrow. Upon the completion of the straw placement and seeding Trec and GES will demobilize from site until the DI is available from Jefferson concrete.

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TREC
VOLNEY
Casing
Inside
of


GES











































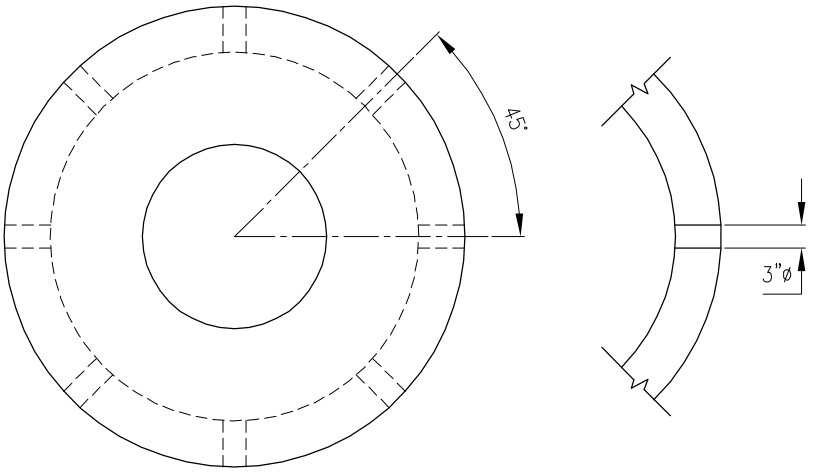


# Drywell Cutsheets

# JEFFERSON CONCRETE CORP.

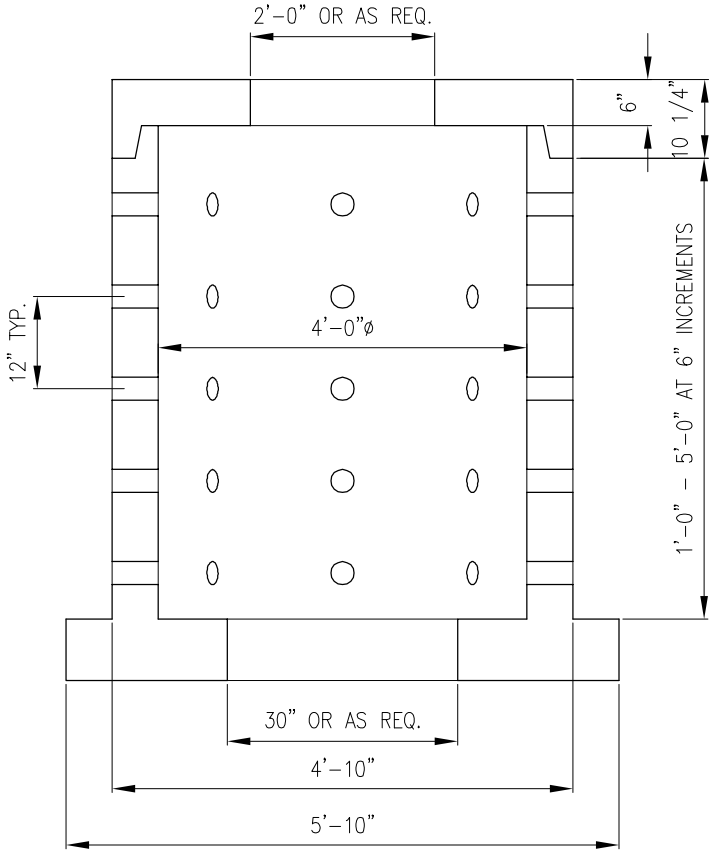
22850 COUNTY ROUTE 51
WATERTOWN, NY 13601
TEL (315)788-4171 FAX (315)788-7958
www.jeffersonconcrete.com


## 48" DIAMETER DRYWELL




TOP VIEW

- OPENING IN COVER AS REQUIRED
- CASTING AS REQUIRED
- HOLES FOR PIPES CORED OR CAST AS REQUIRED
- HOLE IN BASE AS REQUIRED

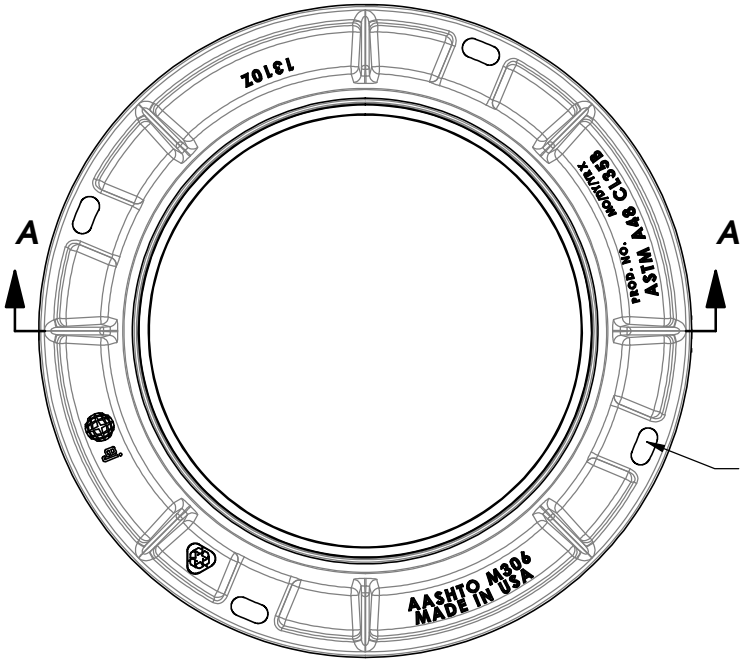


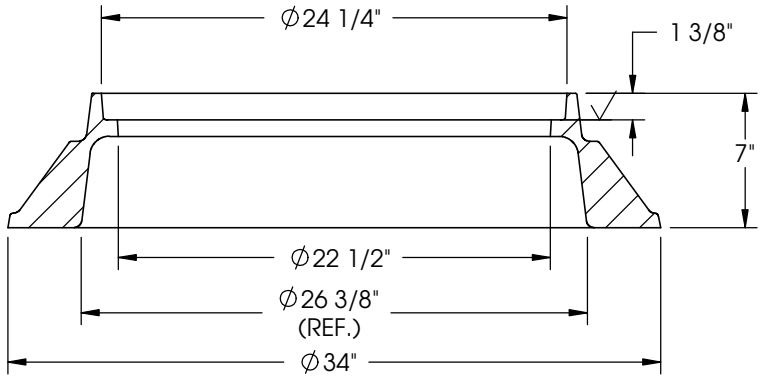

SECTION

GENERAL NOTES:
BUILT IN ACCORDANCE TO ASTM C478
REINFORCEMENT STEEL ASTM A497 GRADE 60 WWF
CONCRETE TO BE MIN. 5000 PSI @ 28 DAYS
AIR ENTRAINED 5%-8%
INVERT LOCATION AND SIZE AS PER PLANS

UPDATED 10/09/19

# 1310Z Frame




SECTION A-A

**Product Number**

**00131011**

**Design Features**

-Materials
Gray Iron (CL35B)
-Design Load
Heavy Duty
-Open Area
n/a
-Coating
Undipped
-√ Designates Machined Surface

- Estimated Weight - 130 lbs.

**Certification**

-ASTM A48
-
-
-Country of Origin: USA

**Drawing Revision**

3/16/2012 Designer: DJH
03/06/2014 Revised By: MAH

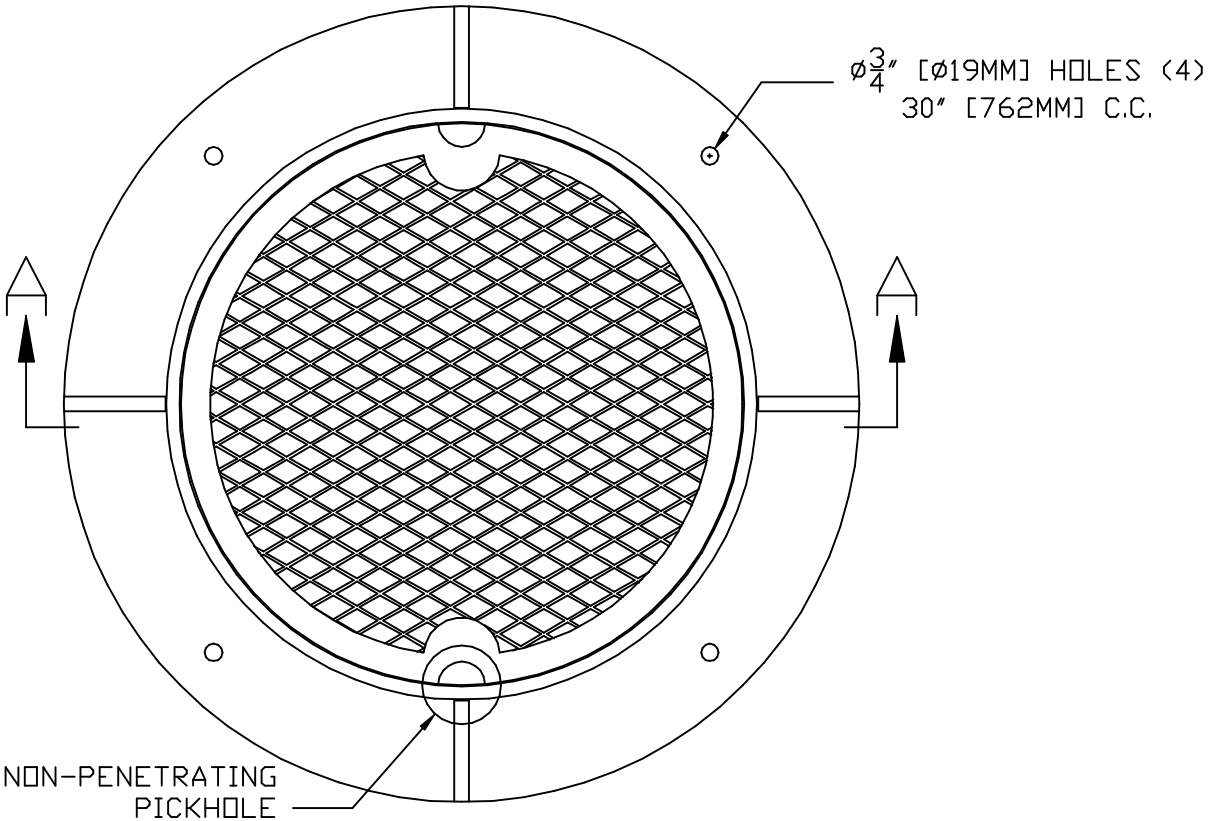
**Disclaimer**

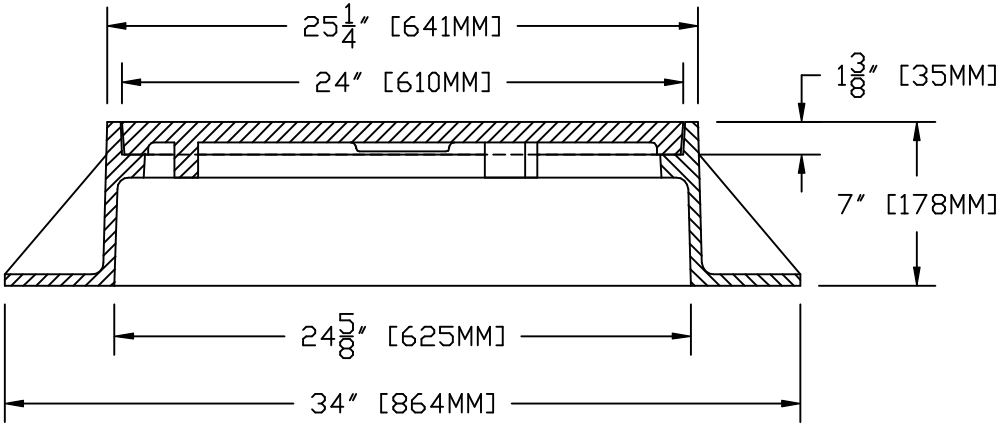
Weights (lbs/kg), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

CONFIDENTIAL: This drawing is the property of EJ Group, Inc. and embodies confidential information, registered marks, patents, trade secret information, and/or know how that is the property of EJ Group, Inc. Copyright © 2013 EJ Group, Inc. All rights reserved.

**Contact**

800 626 4653
ejco.com




SECTION A - A

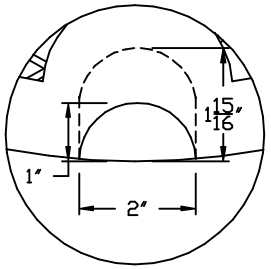
NOTES:

1.) MATERIAL SHALL BE GRAY CAST IRON CONFORMING TO A.S.T.M. A48 (LATEST REVISION) CLASS 30B.

2.) UNITS DESIGNED HEAVY DUTY FOR A.A.S.H.T.O. HS20-44 WHEEL LOADS.

3.) EACH FRAME AND COVER SHALL HAVE MACHINED HORIZONTAL BEARING SURFACES.

4.) DIMENSIONS ARE APPLIED USING SOFT CONVERSION. ALL DIMENSIONS IN BRACKETS ARE MILLIMETERS.




NON-PENETRATING
PICKHOLE DETAIL

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# #1032XC FRAME & #1007PC COVER "PLAIN" - CAST IRON

| | | | |
|---|---|---|---|
| DRAWING # 072799-A | | | |
| FILE # 1032452XC-1007869PC | | | |
| Drawn By: ARO | DATE: 05/01/99 | Revised By: ARO | Revised: 03/02/04 |

Syracuse Castings
Better By Design
P.O. Box 1821
6177 South Bay Rd.
Cicero, N.Y. 13039
Phone # 315-699-2601 Fax # 315-699-2982 www.syrcast.com

# Appendix J

# Potable Well Abandonment Field Documentation

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MAP NOTES

1.) NORTH ORIENTATION IS BASED ON THE CENTRAL ZONE OF THE NEW Y PLANE COORDINATE SYSTEM NAD 83.

2.) ELEVATIONS BASE ON NAVD 88 DATUM.

3.) FIELD WORK PERFORMED DURING THE MONTHS OF SEPTEMBER, OCTO

4.) UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN SURVEY LOCATION OF UNDERGROUND UTILITY DESIGNATIONS BY THI GEOPHYSICS OF CATASAUQUA, PA. THERE MAY BE OTHER UNDERGRO EXISTENCE OF WHICH ARE NOT KNOWN TO THE UNDERSIGNED. SIZE UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY TI AUTHORITIES PRIOR TO ANY CONSTRUCTION.

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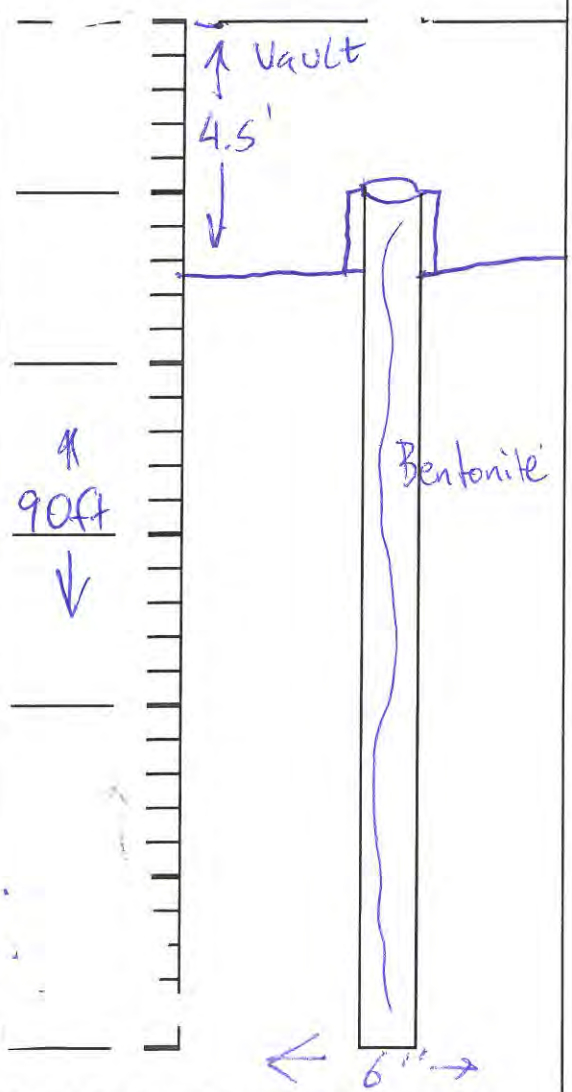
FIGURE 3
# WELL DECOMMISSIONING RECORD

| | |
|---|---|
| Site Name: DEC Crosby Hill | Well I.D.: MW-1 |
| Site Location: | Driller: Bob Thornton |
| Drilling Co.: Amber | Inspector: |
| | Date: 2/19/20 |

## DECOMMISSIONING DATA
(Fill in all that apply)

| | |
|---|---|
| **OVERDRILLING** | |
| Interval Drilled | |
| Drilling Method(s) | |
| Borehole Dia. (in.) | |
| Temporary Casing Installed? (y/n) | |
| Depth temporary casing installed | |
| Casing type/dia. (in.) | |
| Method of installing | |
| **CASING PULLING** | |
| Method employed | |
| Casing retrieved (feet) | |
| Casing type/dia. (in) | |
| **CASING PERFORATING** | |
| Equipment used | |
| Number of perforations/foot | |
| Size of perforations | |
| Interval perforated | |
| **GROUTING** | |
| Interval grouted (FBLS) | |
| # of batches prepared | |
| For each batch record: | |
| Quantity of water used (gal.) | |
| Quantity of cement used (lbs.) | |
| Cement type | |
| Quantity of bentonite used (lbs.) | 24X50= 1200lbs |
| Quantity of calcium chloride used (lbs.) | |
| Volume of grout prepared (gal.) | |
| Volume of grout used (gal.) | |

## WELL SCHEMATIC*




COMMENTS:
Deeper than recorded, will leave concrete top for site restoration.
Vault filled with sand

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

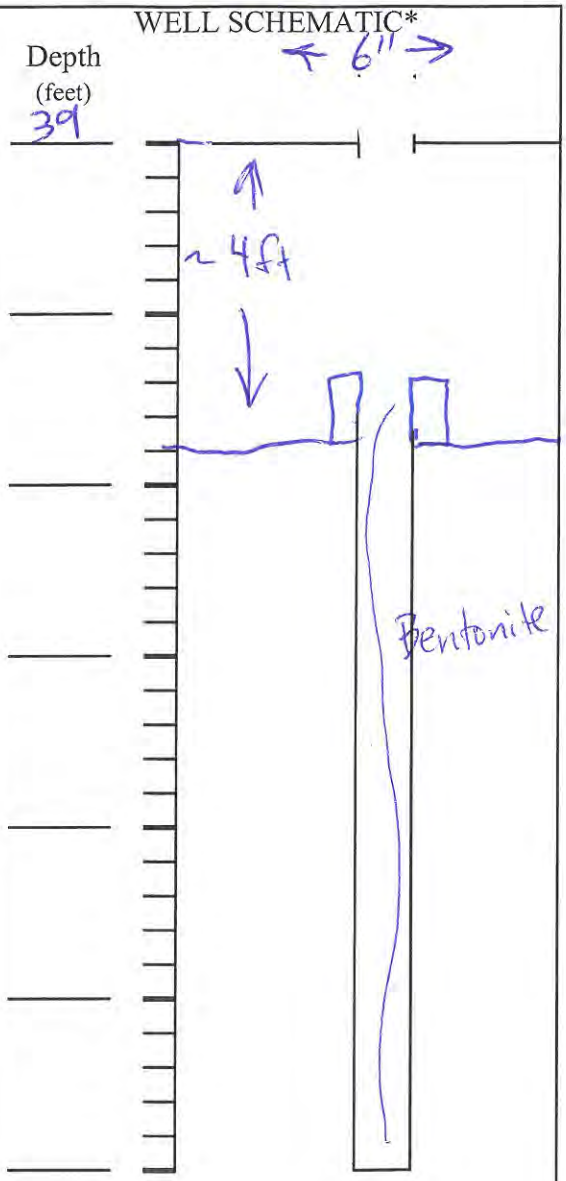
# WELL DECOMMISSIONING RECORD

| | |
|---|---|
| Site Name: DEC Crosby Hill | Well I.D.: MW-2 |
| Site Location: | Driller: Bob Thornton |
| Drilling Co.: Amber | Inspector: |
| | Date: 2/19/20 |

## DECOMMISSIONING DATA
(Fill in all that apply)

| | |
|---|---|
| **OVERDRILLING** | |
| Interval Drilled | |
| Drilling Method(s) | |
| Borehole Dia. (in.) | |
| Temporary Casing Installed? (y/n) | |
| Depth temporary casing installed | |
| Casing type/dia. (in.) | |
| Method of installing | |
| **CASING PULLING** | |
| Method employed | |
| Casing retrieved (feet) | |
| Casing type/dia. (in) | |
| **CASING PERFORATING** | |
| Equipment used | |
| Number of perforations/foot | |
| Size of perforations | |
| Interval perforated | |
| **GROUTING** | |
| Interval grouted (FBLS) | |
| # of batches prepared | |
| For each batch record: | |
| Quantity of water used (gal.) | |
| Quantity of cement used (lbs.) | |
| Cement type | |
| Quantity of bentonite used (lbs.) | 500 lbs |
| Quantity of calcium chloride used (lbs.) | |
| Volume of grout prepared (gal.) | |
| Volume of grout used (gal.) | |

## WELL SCHEMATIC*




COMMENTS:

filled to top of casing w/ bentonite, filled vault w/ sand.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

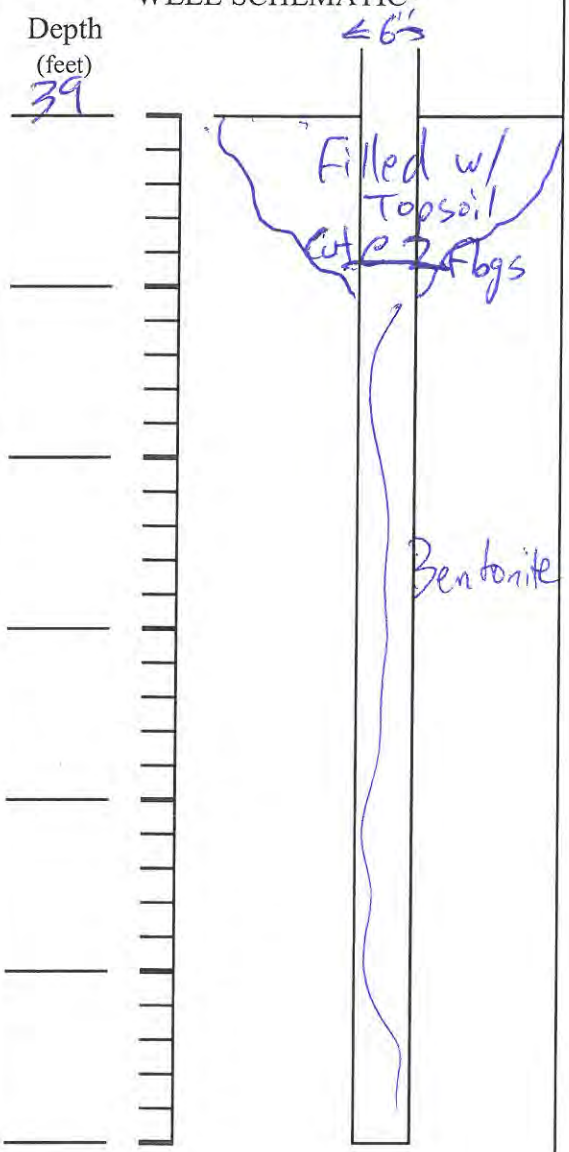
# WELL DECOMMISSIONING RECORD

| | |
|---|---|
| Site Name: DEC Crosby Hill | Well I.D.: MW-3 |
| Site Location: | Driller: Bob Thornton |
| Drilling Co.: Amber | Inspector: |
| | Date: 2/19/20 |

## DECOMMISSIONING DATA
(Fill in all that apply)

| | |
|---|---|
| **OVERDRILLING** | |
| Interval Drilled | |
| Drilling Method(s) | |
| Borehole Dia. (in.) | |
| Temporary Casing Installed? (y/n) | |
| Depth temporary casing installed | |
| Casing type/dia. (in.) | |
| Method of installing | |
| **CASING PULLING** | |
| Method employed | |
| Casing retrieved (feet) | |
| Casing type/dia. (in) | |
| **CASING PERFORATING** | |
| Equipment used | |
| Number of perforations/foot | |
| Size of perforations | |
| Interval perforated | |
| **GROUTING** | |
| Interval grouted (FBLS) | |
| # of batches prepared | |
| For each batch record: | |
| Quantity of water used (gal.) | |
| Quantity of cement used (lbs.) | |
| Cement type | |
| Quantity of bentonite used (lbs.) | 500 lbs |
| Quantity of calcium chloride used (lbs.) | |
| Volume of grout prepared (gal.) | |
| Volume of grout used (gal.) | |

## WELL SCHEMATIC*




| COMMENTS: |
|---|
| |
| |
| |

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

# WELL DECOMMISSIONING RECORD

| | |
|---|---|
| Site Name: DEC Crosby Hill | Well I.D.: MW-4 |
| Site Location: | Driller: Bob Thornton |
| Drilling Co.: Amber | Inspector: |
| | Date: 2/19/20 |

## DECOMMISSIONING DATA
(Fill in all that apply)

**OVERDRILLING**
- Interval Drilled
- Drilling Method(s)
- Borehole Dia. (in.)
- Temporary Casing Installed? (y/n)
- Depth temporary casing installed
- Casing type/dia. (in.)
- Method of installing

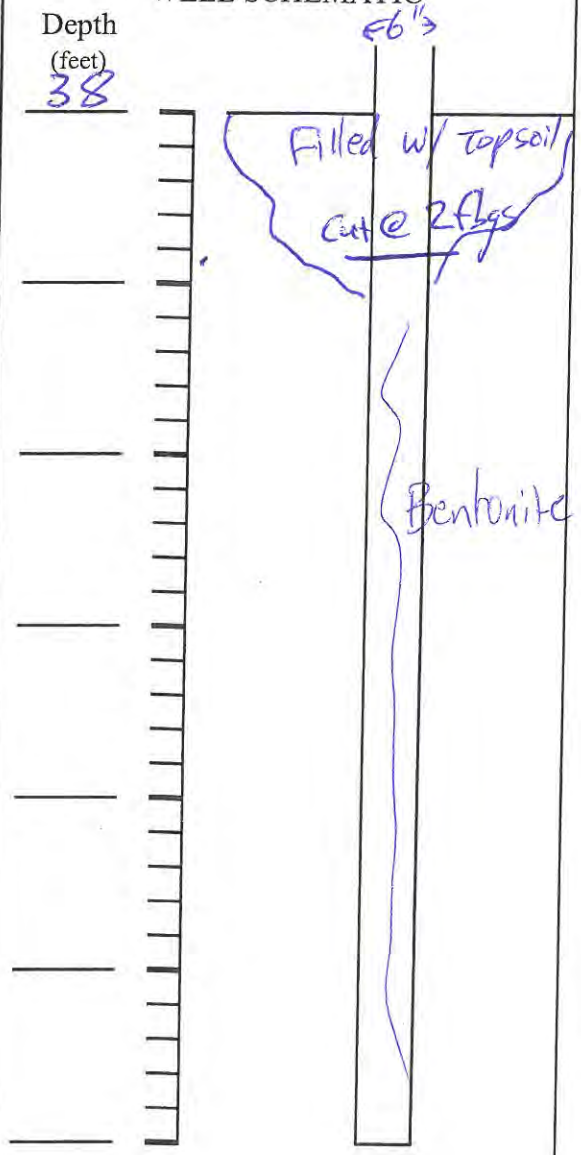
**CASING PULLING**
- Method employed
- Casing retrieved (feet)
- Casing type/dia. (in)

**CASING PERFORATING**
- Equipment used
- Number of perforations/foot
- Size of perforations
- Interval perforated

**GROUTING**
- Interval grouted (FBLS)
- # of batches prepared

For each batch record:
- Quantity of water used (gal.)
- Quantity of cement used (lbs.)
- Cement type
- Quantity of bentonite used (lbs.) 500lbs
- Quantity of calcium chloride used (lbs.)
- Volume of grout prepared (gal.)
- Volume of grout used (gal.)

## WELL SCHEMATIC*




COMMENTS:

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

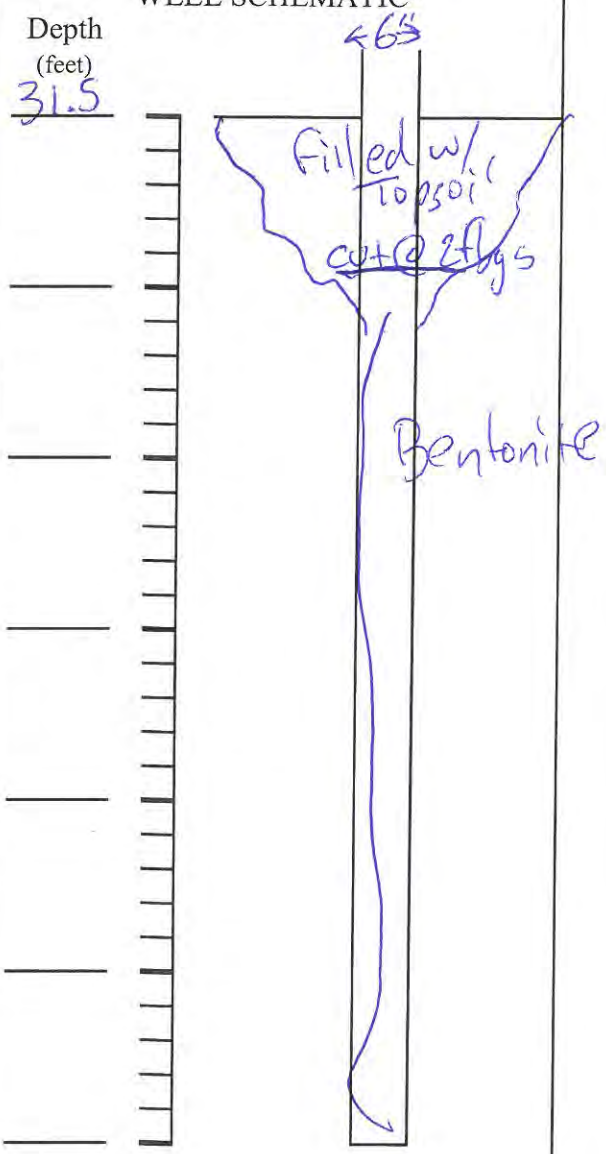
# WELL DECOMMISSIONING RECORD

| | | | |
|---|---|---|---|
| Site Name: | DEC Crosby Hill | Well I.D.: | MW-5 |
| Site Location: | | Driller: | Bob Thornton |
| Drilling Co.: | Amber | Inspector: | |
| | | Date: | 2/19/20 |

## DECOMMISSIONING DATA
(Fill in all that apply)

| | |
|---|---|
| **OVERDRILLING** | |
| Interval Drilled | |
| Drilling Method(s) | |
| Borehole Dia. (in.) | |
| Temporary Casing Installed? (y/n) | |
| Depth temporary casing installed | |
| Casing type/dia. (in.) | |
| Method of installing | |
| **CASING PULLING** | |
| Method employed | |
| Casing retrieved (feet) | |
| Casing type/dia. (in) | |
| **CASING PERFORATING** | |
| Equipment used | |
| Number of perforations/foot | |
| Size of perforations | |
| Interval perforated | |
| **GROUTING** | |
| Interval grouted (FBLS) | |
| # of batches prepared | |
| For each batch record: | |
| Quantity of water used (gal.) | |
| Quantity of cement used (lbs.) | |
| Cement type | |
| Quantity of bentonite used (lbs.) | 400 lbs |
| Quantity of calcium chloride used (lbs.) | |
| Volume of grout prepared (gal.) | |
| Volume of grout used (gal.) | |

## WELL SCHEMATIC*




COMMENTS:

No pump in well

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

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Made in USA
3/8 COARSE GRADE WYOMING SODIU
HOLEPLUG
Feb 19, 2020 9:19:03 AM

*This page intentionally left blank*


Feb 19, 2020 1:05:34 PM


Feb 19, 2020 1:13:01 PM


Feb 19, 2020 1:20:31 PM


Feb 19, 2020 1:21:28 PM


Feb 19, 2020 1:28:24 PM


Feb 19, 2020 1:35:38 PM


CAM
SUPERLINE
Feb 19, 2020 1:35:50 PM


Feb 19, 2020 1:38:56 PM

# Appendix K

# Topsoil Analytical Data

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eurofins | Environment Testing America



# ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-170154-1
Client Project/Site: Crosby Hill MHP #1805786 PIN H7096

For:
New York State D.E.C.
625 Broadway
11th Floor
Albany, New York 12233-3256

Attn: Mr. Dave Chiusano

Joseph V. Giacomazza

*Authorized for release by:*
*5/31/2020 12:30:00 PM*
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joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager
(484)685-0868
judy.stone@testamericainc.com

LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Joe Giacomazza
Project Management Assistant II
*5/31/2020 12:30:00 PM*

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# Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-170154-1
Project/Site: Crosby Hill MHP #1805786 PIN H7096

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| vs | Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| F2 | MS/MSD RPD exceeds control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| X | Surrogate recovery exceeds control limits |

### LCMS

| Qualifier | Qualifier Description |
|---|---|
| *5 | Isotope dilution analyte is outside acceptance limits. |
| B | Compound was found in the blank and sample. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

## Job ID: 480-170154-1

### Laboratory: Eurofins TestAmerica, Buffalo

**Narrative**

**Job Narrative**
**480-170154-1**

**Comments**
No additional comments.

**Receipt**
The sample was received on 5/20/2020 8:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

**Receipt Exceptions**
The following sample was activated for 8151 herbicides, 8082 PCBs and 9012 Cyanide analysis by the client on 5/19/20: TS (480-170154-1). These analyses were not originally requested on the chain-of-custody (COC).

**GC/MS VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**GC/MS Semi VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**GC Semi VOA**
Method 8151A: Surrogate recovery for the following samples were outside control limits: TS (480-170154-1), (480-170154-D-1-A MS) and (480-170154-D-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-533848 and analytical batch 480-533914 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Metals**
Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for strontium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. TS (480-170154-1), (LCSSRM 480-532443/2-A) and (MB 480-532443/1-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**LCMS**
Method 537 (modified): The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Perfluoroundecanoic acid (PFUnA) was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 537 (modified): M2:6-2 FTS Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: TS (480-170154-1), (480-170154-E-1-B MS) and (480-170154-E-1-C MSD). IDA recoveries for the parent sample and matrix spike/matrix spike duplicate confirm each other. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): M2:8-2 FTS Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: TS (480-170154-1) and (480-170154-E-1-C MSD). IDA recoveries for the parent sample and matrix spike duplicate confirm each other. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**General Chemistry**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Job ID: 480-170154-1 (Continued)

### Laboratory: Eurofins TestAmerica, Buffalo (Continued)

**Organic Prep**
Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: TS (480-170154-1), (480-170154-B-1 MS) and (480-170154-B-1 MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Client Sample ID: TS**
**Lab Sample ID: 480-170154-1**
**Date Collected: 05/19/20 13:00**
**Matrix: Solid**
**Date Received: 05/20/20 08:00**
**Percent Solids: 87.8**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | vs | 5.6 | 0.41 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| 1,1-Dichloroethane | ND | vs | 5.6 | 0.69 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| 1,1-Dichloroethene | ND | vs | 5.6 | 0.69 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| 1,2-Dichlorobenzene | ND | vs | 5.6 | 0.44 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| 1,2-Dichloroethane | ND | vs | 5.6 | 0.28 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| 1,2-Dichloroethene, cis- | ND | vs | 5.6 | 0.72 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| 1,2-Dichloroethene, trans- | ND | vs | 5.6 | 0.58 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| 1,3-Dichlorobenzene | ND | vs | 5.6 | 0.29 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| 1,4-Dichlorobenzene | ND | vs | 5.6 | 0.79 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| 1,4-Dioxane | ND | vs | 110 | 25 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Acetone | ND | vs | 28 | 4.7 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Benzene | ND | vs | 5.6 | 0.28 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Butylbenzene | ND | vs | 5.6 | 0.49 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Carbon tetrachloride | ND | vs | 5.6 | 0.54 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Chlorobenzene | ND | vs | 5.6 | 0.74 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Chloroform | ND | vs | 5.6 | 0.35 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Ethylbenzene | ND | vs | 5.6 | 0.39 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Methyl Ethyl Ketone | ND | vs | 28 | 2.1 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Methyl tert-butyl ether | ND | vs | 5.6 | 0.55 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| **Methylene Chloride** | **6.0** | **vs B** | 5.6 | 2.6 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Propylbenzene, n- | ND | vs | 5.6 | 0.45 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| sec-Butylbenzene | ND | vs | 5.6 | 0.49 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| tert-Butylbenzene | ND | vs | 5.6 | 0.58 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Tetrachloroethene | ND | vs | 5.6 | 0.75 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Toluene | ND | vs | 5.6 | 0.43 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Trichloroethene | ND | vs | 5.6 | 1.2 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Trimethylbenzene, 1,2,4- | ND | vs | 5.6 | 1.1 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Trimethylbenzene, 1,3,5- | ND | vs | 5.6 | 0.36 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Vinyl chloride | ND | vs | 5.6 | 0.69 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |
| Xylene (mixed) | ND | vs | 11 | 0.94 | ug/Kg | ☼ | 05/20/20 15:26 | 05/20/20 21:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *64 - 126* | *05/20/20 15:26* | *05/20/20 21:52* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *72 - 126* | *05/20/20 15:26* | *05/20/20 21:52* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 140* | *05/20/20 15:26* | *05/20/20 21:52* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *71 - 125* | *05/20/20 15:26* | *05/20/20 21:52* | *1* |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 190 | 28 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Acenaphthylene | ND | | 190 | 25 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Anthracene | ND | | 190 | 47 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Benzo(a)anthracene | ND | | 190 | 19 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Benzo(a)pyrene | ND | | 190 | 28 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Benzo(b)fluoranthene | ND | | 190 | 30 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Benzo(g,h,i)perylene | ND | | 190 | 20 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Benzo(k)fluoranthene | ND | | 190 | 25 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Chrysene | ND | | 190 | 42 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Dibenz(a,h)anthracene | ND | | 190 | 33 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Dibenzofuran | ND | | 190 | 22 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |

**Client Sample ID: TS**
**Lab Sample ID: 480-170154-1**
**Date Collected: 05/19/20 13:00**
**Matrix: Solid**
**Date Received: 05/20/20 08:00**
**Percent Solids: 87.8**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Fluoranthene | ND | | 190 | 20 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Fluorene | ND | | 190 | 22 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Hexachlorobenzene | ND | | 190 | 26 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 190 | 23 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| m-Cresol | ND | | 370 | 29 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Naphthalene | ND | | 190 | 25 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| o-Cresol | ND | | 190 | 22 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| p-Cresol | ND | | 370 | 22 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Pentachlorophenol | ND | | 370 | 190 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Phenanthrene | ND | | 190 | 28 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Phenol | ND | | 190 | 29 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| Pyrene | ND | | 190 | 22 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |
| 1,4-Dioxane | ND | | 110 | 61 | ug/Kg | ☼ | 05/21/20 07:33 | 05/22/20 01:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *105* | | *54 - 120* | *05/21/20 07:33* | *05/22/20 01:51* | *1* |
| *2-Fluorobiphenyl* | *87* | | *60 - 120* | *05/21/20 07:33* | *05/22/20 01:51* | *1* |
| *2-Fluorophenol* | *74* | | *52 - 120* | *05/21/20 07:33* | *05/22/20 01:51* | *1* |
| *Nitrobenzene-d5* | *80* | | *53 - 120* | *05/21/20 07:33* | *05/22/20 01:51* | *1* |
| *Phenol-d5* | *77* | | *54 - 120* | *05/21/20 07:33* | *05/22/20 01:51* | *1* |
| *p-Terphenyl-d14* | *99* | | *79 - 130* | *05/21/20 07:33* | *05/22/20 01:51* | *1* |

## Method: 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 1.9 | 0.37 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |
| 4,4'-DDE | ND | | 1.9 | 0.40 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |
| **4,4'-DDT** | **0.86** | **J F2** | 1.9 | 0.44 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |
| Aldrin | ND | | 1.9 | 0.47 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |
| alpha-BHC | ND | | 1.9 | 0.34 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |
| **beta-BHC** | **0.80** | **J B** | 1.9 | 0.34 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |
| Chlordane (.alpha.) | ND | | 1.9 | 0.94 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |
| delta-BHC | ND | | 1.9 | 0.35 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |
| Dieldrin | ND | | 1.9 | 0.45 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |
| Endosulfan I | ND | | 1.9 | 0.36 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |
| Endosulfan II | ND | | 1.9 | 0.34 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |
| Endosulfan sulfate | ND | | 1.9 | 0.35 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |
| Endrin | ND | | 1.9 | 0.38 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |
| Heptachlor | ND | | 1.9 | 0.41 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |
| Lindane | ND | F2 | 1.9 | 0.35 | ug/Kg | ☼ | 05/28/20 15:18 | 05/29/20 10:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *100* | | *45 - 120* | *05/28/20 15:18* | *05/29/20 10:55* | *1* |
| *Tetrachloro-m-xylene* | *88* | | *30 - 124* | *05/28/20 15:18* | *05/29/20 10:55* | *1* |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.24 | 0.046 | mg/Kg | ☼ | 05/21/20 15:50 | 05/24/20 16:36 | 1 |
| PCB-1221 | ND | | 0.24 | 0.046 | mg/Kg | ☼ | 05/21/20 15:50 | 05/24/20 16:36 | 1 |
| PCB-1232 | ND | | 0.24 | 0.046 | mg/Kg | ☼ | 05/21/20 15:50 | 05/24/20 16:36 | 1 |
| PCB-1242 | ND | | 0.24 | 0.046 | mg/Kg | ☼ | 05/21/20 15:50 | 05/24/20 16:36 | 1 |

**Client Sample ID: TS**
**Lab Sample ID: 480-170154-1**
**Date Collected: 05/19/20 13:00**
**Matrix: Solid**
**Date Received: 05/20/20 08:00**
**Percent Solids: 87.8**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1248 | ND | | 0.24 | 0.046 | mg/Kg | ☼ | 05/21/20 15:50 | 05/24/20 16:36 | 1 |
| PCB-1254 | ND | | 0.24 | 0.11 | mg/Kg | ☼ | 05/21/20 15:50 | 05/24/20 16:36 | 1 |
| PCB-1260 | ND | | 0.24 | 0.11 | mg/Kg | ☼ | 05/21/20 15:50 | 05/24/20 16:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *110* | | *60 - 154* | *05/21/20 15:50* | *05/24/20 16:36* | *1* |
| *DCB Decachlorobiphenyl* | *132* | | *65 - 174* | *05/21/20 15:50* | *05/24/20 16:36* | *1* |

## Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silvex (2,4,5-TP) | ND | | 19 | 6.8 | ug/Kg | ☼ | 05/21/20 15:28 | 05/26/20 15:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *10* | *X* | *28 - 129* | *05/21/20 15:28* | *05/26/20 15:21* | *1* |

## Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Perfluorobutanoic acid (PFBA)** | **0.21** | **B** | 0.21 | 0.029 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| Perfluoropentanoic acid (PFPeA) | ND | | 0.21 | 0.081 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| Perfluorohexanoic acid (PFHxA) | ND | | 0.21 | 0.044 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| Perfluoroheptanoic acid (PFHpA) | ND | | 0.21 | 0.030 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| **Perfluorooctanoic acid (PFOA)** | **0.091** | **J** | 0.21 | 0.090 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| **Perfluorononanoic acid (PFNA)** | **0.055** | **J** | 0.21 | 0.038 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| Perfluorodecanoic acid (PFDA) | ND | | 0.21 | 0.023 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| Perfluoroundecanoic acid (PFUnA) | ND | F1 | 0.21 | 0.038 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| Perfluorododecanoic acid (PFDoA) | ND | | 0.21 | 0.070 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| Perfluorotridecanoic acid (PFTriA) | ND | | 0.21 | 0.053 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| Perfluorotetradecanoic acid (PFTeA) | ND | | 0.21 | 0.057 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | ND | | 0.21 | 0.026 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | ND | | 0.21 | 0.032 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | 0.21 | 0.037 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| **Perfluorooctanesulfonic acid (PFOS)** | **0.44** | **J** | 0.52 | 0.21 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| Perfluorodecanesulfonic acid (PFDS) | ND | | 0.21 | 0.041 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| Perfluorooctanesulfonamide (FOSA) | ND | | 0.21 | 0.086 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND | | 2.1 | 0.41 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | ND | | 2.1 | 0.39 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| 6:2 FTS | ND | | 2.1 | 0.16 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |
| 8:2 FTS | ND | | 2.1 | 0.26 | ug/Kg | ☼ | 05/21/20 19:35 | 05/28/20 12:47 | 1 |

| *Isotope Dilution* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *13C4 PFBA* | *83* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *13C5 PFPeA* | *81* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *13C2 PFHxA* | *94* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *13C4 PFHpA* | *95* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *13C4 PFOA* | *91* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *13C5 PFNA* | *93* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *13C2 PFDA* | *87* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *13C2 PFUnA* | *82* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |

Client: New York State D.E.C.
Project/Site: Crosby Hill MHP #1805786 PIN H7096

Job ID: 480-170154-1

## Client Sample ID: TS

**Date Collected: 05/19/20 13:00**
**Date Received: 05/20/20 08:00**

## Lab Sample ID: 480-170154-1

**Matrix: Solid**
**Percent Solids: 87.8**

### Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

| *Isotope Dilution* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *13C2 PFDoA* | *92* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *13C2 PFTeDA* | *78* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *13C3 PFBS* | *87* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *18O2 PFHxS* | *94* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *13C4 PFOS* | *80* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *13C8 FOSA* | *83* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *d3-NMeFOSAA* | *72* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *d5-NEtFOSAA* | *80* | | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *M2-6:2 FTS* | *152* | **5* | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |
| *M2-8:2 FTS* | *155* | **5* | *25 - 150* | *05/21/20 19:35* | *05/28/20 12:47* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **2.6** | | 2.1 | 0.42 | mg/Kg | ☼ | 05/20/20 15:45 | 05/21/20 15:09 | 1 |
| **Barium** | **35.6** | **^** | 0.52 | 0.11 | mg/Kg | ☼ | 05/20/20 15:45 | 05/21/20 15:09 | 1 |
| **Beryllium** | **0.33** | | 0.21 | 0.029 | mg/Kg | ☼ | 05/20/20 15:45 | 05/21/20 15:09 | 1 |
| **Cadmium** | **0.15** | **J** | 0.21 | 0.031 | mg/Kg | ☼ | 05/20/20 15:45 | 05/21/20 15:09 | 1 |
| **Chromium** | **9.0** | | 0.52 | 0.21 | mg/Kg | ☼ | 05/20/20 15:45 | 05/21/20 15:09 | 1 |
| **Copper** | **10.4** | | 1.0 | 0.22 | mg/Kg | ☼ | 05/20/20 15:45 | 05/21/20 15:09 | 1 |
| **Lead** | **6.7** | | 1.0 | 0.25 | mg/Kg | ☼ | 05/20/20 15:45 | 05/21/20 15:09 | 1 |
| **Manganese** | **570** | **B** | 0.21 | 0.033 | mg/Kg | ☼ | 05/20/20 15:45 | 05/21/20 15:09 | 1 |
| **Nickel** | **9.2** | | 5.2 | 0.24 | mg/Kg | ☼ | 05/20/20 15:45 | 05/21/20 15:09 | 1 |
| Selenium | ND | | 4.2 | 0.42 | mg/Kg | ☼ | 05/20/20 15:45 | 05/21/20 15:09 | 1 |
| Silver | ND | | 0.62 | 0.21 | mg/Kg | ☼ | 05/20/20 15:45 | 05/21/20 15:09 | 1 |
| **Zinc** | **35.4** | | 2.1 | 0.67 | mg/Kg | ☼ | 05/20/20 15:45 | 05/21/20 15:09 | 1 |

### Method: 7471B - Mercury

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.039** | | 0.022 | 0.0090 | mg/Kg | ☼ | 05/22/20 13:14 | 05/22/20 17:37 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 1.1 | 0.52 | mg/Kg | ☼ | 05/27/20 13:43 | 05/27/20 15:04 | 1 |

# Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-170154-1
Project/Site: Crosby Hill MHP #1805786 PIN H7096

## Client Sample ID: TS
**Lab Sample ID: 480-170154-1**
**Date Collected: 05/19/20 13:00**
**Matrix: Solid**
**Date Received: 05/20/20 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 532985 | 05/21/20 16:19 | GSR | TAL BUF |

## Client Sample ID: TS
**Lab Sample ID: 480-170154-1**
**Date Collected: 05/19/20 13:00**
**Matrix: Solid**
**Date Received: 05/20/20 08:00**
**Percent Solids: 87.8**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 532735 | 05/20/20 15:26 | WJD | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 532722 | 05/20/20 21:52 | LCH | TAL BUF |
| Total/NA | Prep | 3550C | | | 532803 | 05/21/20 07:33 | VXF | TAL BUF |
| Total/NA | Analysis | 8270D | | 1 | 532950 | 05/22/20 01:51 | PJQ | TAL BUF |
| Total/NA | Prep | 3550C | | | 533848 | 05/28/20 15:18 | SGD | TAL BUF |
| Total/NA | Analysis | 8081B | | 1 | 533914 | 05/29/20 10:55 | JLS | TAL BUF |
| Total/NA | Prep | 3550C | | | 532972 | 05/21/20 15:50 | SGD | TAL BUF |
| Total/NA | Analysis | 8082A | | 1 | 533267 | 05/24/20 16:36 | W1T | TAL BUF |
| Total/NA | Prep | 8151A | | | 532970 | 05/21/20 15:28 | SGD | TAL BUF |
| Total/NA | Analysis | 8151A | | 1 | 533345 | 05/26/20 15:21 | MAN | TAL BUF |
| Total/NA | Prep | SHAKE | | | 380064 | 05/21/20 19:35 | AZ | TAL SAC |
| Total/NA | Analysis | 537 (modified) | | 1 | 381272 | 05/28/20 12:47 | HJA | TAL SAC |
| Total/NA | Prep | 3050B | | | 532443 | 05/20/20 15:45 | NSW | TAL BUF |
| Total/NA | Analysis | 6010C | | 1 | 533045 | 05/21/20 15:09 | LMH | TAL BUF |
| Total/NA | Prep | 7471B | | | 533134 | 05/22/20 13:14 | BMB | TAL BUF |
| Total/NA | Analysis | 7471B | | 1 | 533186 | 05/22/20 17:37 | BMB | TAL BUF |
| Total/NA | Prep | 9012B | | | 533594 | 05/27/20 13:43 | CRK | TAL BUF |
| Total/NA | Analysis | 9012B | | 1 | 533608 | 05/27/20 15:04 | CRK | TAL BUF |

**Laboratory References:**

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-170154-1
Project/Site: Crosby Hill MHP #1805786 PIN H7096

## Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| New York | NELAP | 10026 | 04-02-21 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

## Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| New York | NELAP | 11666 | 04-01-21 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 537 (modified) | SHAKE | Solid | 6:2 FTS |
| 537 (modified) | SHAKE | Solid | 8:2 FTS |
| 537 (modified) | SHAKE | Solid | N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) |
| 537 (modified) | SHAKE | Solid | N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) |
| 537 (modified) | SHAKE | Solid | Perfluorobutanesulfonic acid (PFBS) |
| 537 (modified) | SHAKE | Solid | Perfluorobutanoic acid (PFBA) |
| 537 (modified) | SHAKE | Solid | Perfluorodecanesulfonic acid (PFDS) |
| 537 (modified) | SHAKE | Solid | Perfluorodecanoic acid (PFDA) |
| 537 (modified) | SHAKE | Solid | Perfluorododecanoic acid (PFDoA) |
| 537 (modified) | SHAKE | Solid | Perfluoroheptanesulfonic Acid (PFHpS) |
| 537 (modified) | SHAKE | Solid | Perfluoroheptanoic acid (PFHpA) |
| 537 (modified) | SHAKE | Solid | Perfluorohexanesulfonic acid (PFHxS) |
| 537 (modified) | SHAKE | Solid | Perfluorohexanoic acid (PFHxA) |
| 537 (modified) | SHAKE | Solid | Perfluorononanoic acid (PFNA) |
| 537 (modified) | SHAKE | Solid | Perfluorooctanesulfonamide (FOSA) |
| 537 (modified) | SHAKE | Solid | Perfluorooctanesulfonic acid (PFOS) |
| 537 (modified) | SHAKE | Solid | Perfluorooctanoic acid (PFOA) |
| 537 (modified) | SHAKE | Solid | Perfluoropentanoic acid (PFPeA) |
| 537 (modified) | SHAKE | Solid | Perfluorotetradecanoic acid (PFTeA) |
| 537 (modified) | SHAKE | Solid | Perfluorotridecanoic acid (PFTriA) |
| 537 (modified) | SHAKE | Solid | Perfluoroundecanoic acid (PFUnA) |

# Method Summary

Client: New York State D.E.C.
Job ID: 480-170154-1
Project/Site: Crosby Hill MHP #1805786 PIN H7096

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL BUF |
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL BUF |
| 8081B | Organochlorine Pesticides (GC) | SW846 | TAL BUF |
| 8082A | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL BUF |
| 8151A | Herbicides (GC) | SW846 | TAL BUF |
| 537 (modified) | Fluorinated Alkyl Substances | EPA | TAL SAC |
| 6010C | Metals (ICP) | SW846 | TAL BUF |
| 7471B | Mercury | SW846 | TAL BUF |
| 9012B | Cyanide, Total andor Amenable | SW846 | TAL BUF |
| Moisture | Percent Moisture | EPA | TAL BUF |
| 3050B | Preparation, Metals | SW846 | TAL BUF |
| 3550C | Ultrasonic Extraction | SW846 | TAL BUF |
| 5035A_L | Closed System Purge and Trap | SW846 | TAL BUF |
| 7471B | Preparation, Mercury | SW846 | TAL BUF |
| 8151A | Extraction (Herbicides) | SW846 | TAL BUF |
| 9012B | Cyanide, Total and/or Amenable, Distillation | SW846 | TAL BUF |
| SHAKE | Shake Extraction with Ultrasonic Bath Extraction | SW846 | TAL SAC |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Sample Summary

Client: New York State D.E.C.
Job ID: 480-170154-1
Project/Site: Crosby Hill MHP #1805786 PIN H7096

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 480-170154-1 | TS | Solid | 05/19/20 13:00 | 05/20/20 08:00 | |

# CHAIN OF CUSTODY

**Client: New York State Dept. of Envir** Syracuse

PAGE OF

FED-EX Tracking # | Bottle Order Control #

Lab Quote # #225 | Lab Job #

NYSDEC Sp# 1805786 PIN # H7096 Site Name Crosby Hill Mobile Home Park TA PROJECT # 480211[illegible]

| CLIENT/REPORTING INFORMATION | PROJECT INFORMATION | BILLING INFORMATION |
|---|---|---|
| Groundwater & Environmental Services, Inc.<br>5 Technology Place, East Syracuse, NY 13057<br>**Project Manager:** Scott McDonald<br>**Phone #:** 800-220-3069<br>Email: NERegion@gesonline.com<br>fax **866-902-2187** | **Project Name:** NYSDEC FultonNY NYSRoute3(2657)<br>**Project Address:** 2657 State Route 3, Fulton, NY<br>**Project PSID #:** 841623 | **Invoice Instructions (Project #/ Phase / Task / Altorg)**<br>Bill to NYSDEC |

Sampler(s) Name: | Sampler(s) Name:

| Lab Sample # | Field ID / Point of Collection (Sys_loc_code) | Depth Interval (ft) | Date Sampled | Time Sampled | Sampler | Matrix | Total # Bottles | number of preserved bottles: HCl | NaOH | HNO3 | H2SO4 | NONE | DI Water | MEOH | ENCORE | Amber | REQUESTED ANALYSIS (see Test Code sheet): 1,4-dioxane using EPA Method 8270 | full list of PFAS compounds EPA Method 537.1 (modified). | VOC's full list 8260 | SVOC's full list 8270 | Pesticides | Metals | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TS | | 5/15/20 | 1300 | SJP | SL | | | | | | | | | | | X | X | X | X | X | X | |
| | RE 5-19-20 | | | | | | | | | | | | | | | | | | | | | | |

480-170154 Chain of Custody

**Turnaround Time (Business Days)** **Approved By (Lab PM) / Date**

- [x] Standard 14 Days
- [ ] 1 day RUSH
- [ ] Other _____

**Laboratory Information**

Lab: Test America

Address:

Phone:

Lab PM:

Lab PM Email:

**Data Deliverable Information**

- [ ] Commercial 'A' (Level 1) = Results
- [ ] Commercial 'B' (Level 2) = Results + QC
- [ ] FULLT1 (Level 3 & 4)
- [ ] NJ Reduced = Results + QC Summary + Partial Raw
- [ ] Commercial 'C'
- [ ] *NJ Data of Known Quality Protocol Reporting*
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] State Forms
- [x] EDD Format _____
- [ ] Other _____

From Syr:
PFAS → SAC
BAL → BUF
- RE

**Please Email the EQ EDD Package to ges@equisonline.com**

**EQEDD Name:** NYSDEC FultonNY NYSRoute3(2657)_LabReport#.30457.EQEDD.zip

**Sample Custody must be documented below each time samples change possession, including courier.**

| | Relinquished By Sampler: | Date / Time: | Received By: |
|---|---|---|---|
| 1 | [signature] | 5/15/20 | [signature] |
| 2 | RE-[illegible] | 5/19/20 1430 | RE [illegible] |
| 3 | RE [illegible] | 5-19-20 19:00 | [illegible] 5/20/20 |

Custody Seal Number: [ ] Intact [ ] Not Intact [ ] Preserved where applicable [ ] On Ice Cooler Temp _____ 3.5 #1 TMB

# CHAIN OF CUSTODY

**Client: New York State Dept. of Envir** Syracuse

PAGE OF

NYSDEC Sp# 1805786 PIN # H7096 Site Name Crosby Hill Mobile Home Park TA PROJECT # 480211451

FED-EX Tracking # | Bottle Order Control #

Lab Quote # #225 | Lab Job #

| CLIENT/REPORTING INFORMATION | PROJECT INFORMATION | BILLING INFORMATION |
|---|---|---|
| Groundwater & Environmental Services, Inc.<br>5 Technology Place, East Syracuse, NY 13057<br>**Project Manager:** Scott McDonald **Phone #:** 800-220-3069<br>Email: NERegion@gesonline.com fax **866-902-2187** | **Project Name:** NYSDEC FultonNY NYSRoute3(2657)<br>**Project Address:** 2657 State Route 3, Fulton, NY<br>**Project PSID #:** 841623 | **Invoice Instructions (Project #/ Phase / Task / Altorg)**<br>Bill to NYSDEC |

Sampler(s) Name: | Sampler(s) Name:

| Lab Sample # | Field ID / Point of Collection (Sys_loc_code) | Depth Interval (ft) | Date Sampled | Time Sampled | Sampler | Matrix | Total # Bottles | number of preserved bottles: HCl | NaOH | HNO3 | H2SO4 | NONE | DI Water | MEOH | ENCORE | Amber | 1,4-dioxane using EPA Method 8270 | full list of PFAS compounds EPA Method 537.1 (modified). | VOC's full list 8260 | SVOC's full list 8270 | Pesticides | Metals | | | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TS | | 5/6/20 | 1300 | SM | SL | | | | | | | | | | | X | X | X | X | X | X | | | |
| | RE 5-19-20 | | | | | | | | | | | | | | | | | | | | | | | | |

**Turnaround Time (Business Days)** — **Approved By (Lab PM) / Date**

- ☑ Standard 14 Days ____/____
- ☐ 1 Day Rush ____/____
- ☐ Other ____ ____/____

**Laboratory Information**

Lab: TEST AMERICA
Address:
Phone:
Lab PM:
Lab PM Email:

**Data Deliverable Information**

- ☐ Commercial 'A' (Level 1) = Results
- ☐ Commercial 'B' (Level 2) = Results + QC
- ☐ FULLT1 (Level 3 & 4)
- ☐ NJ Reduced = Results + QC Summary + Partial Raw
- ☐ Commercial 'C'
- ☐ *NJ Data of Known Quality Protocol Reporting*
- ☐ NYASP Category A
- ☑ NYASP Category B
- ☐ State Forms
- ☑ EDD Format ____
- ☐ Other ____

FROM SYR:
PFAS → SAC
BAL → BUF
- RE

**Please Email the EQ EDD Package to ges@equisonline.com**

**EQEDD Name:** NYSDEC FultonNY NYSRoute3(2657)_LabReport#.30457.EQEDD.zip

| Sample Custody must be documented below each time samples change possession, including courier. | | |
|---|---|---|
| Relinquished By Sampler: 1 | Date / Time: 1 5/15/20 | Received By: 1 OBS FIELD |
| Relinquished By: 2 RE-20 | Date / Time: 2 5/19/20 1430 | Received By: 2 RE 5/19/20 |
| Relinquished By: 3 RE 5/19/20 | Date / Time: 3 5-19-20 19:00 | Received By: 3 |
| Custody Seal Number: ☐ Intact ☐ Not Intact | ☐ Preserved where applicable ☐ On Ice Cooler Temp ____ | |

5/20/20

480-170154 Chain of Custody

OBS 4.0 CORR 45



5/31/2020

eurofins | Environment Testing TestAmerica

Sacramento
Sample Receiving Notes

480-170154 Field Sheet

Tracking # 1870-7198-0889

Job: _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: AK-12 Corr. Factor: (+/-) 0.5 °C

Ice ✓ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: —

Cooler ID: —

Temp Observed: 4.0 °C Corrected: 4.5 °C

From: Temp Blank ☐ Sample ☑

| Opening/Processing The Shipment | Yes | No | NA |
|---|---|---|---|
| Cooler compromised/tampered with? | ☐ | ☑ | ☐ |
| Cooler Temperature is acceptable? | ☑ | ☐ | ☐ |
| Samples received within holding time? | ☑ | ☐ | ☐ |

Initials: JG Date: 5/20/20

| Unpacking/Labeling The Samples | Yes | No | NA |
|---|---|---|---|
| CoC is complete w/o discrepancies? | ☑ | ☐ | ☐ |
| Samples compromised/tampered with? | ☐ | ☑ | ☐ |
| Sample containers have legible labels? | ☑ | ☐ | ☐ |
| Sample custody seal? | ☐ | ☐ | ☑ |
| Containers are not broken or leaking? | ☑ | ☐ | ☐ |
| Sample date/times are provided? | ☑ | ☐ | ☐ |
| Appropriate containers are used? | ☑ | ☐ | ☐ |
| Sample bottles are completely filled? | ☑ | ☐ | ☐ |
| Sample preservatives verified? | ☐ | ☐ | ☑ |
| Samples w/o discrepancies? | ☑ | ☐ | ☐ |
| Zero headspace?* | ☐ | ☐ | ☑ |
| Alkalinity has no headspace? | ☐ | ☐ | ☑ |
| Perchlorate has headspace? (Methods 314, 331, 6850) | ☐ | ☐ | ☑ |
| Multiphasic samples are not present? | ☑ | ☐ | ☐ |

*Containers requiring zero headspace have no headspace or bubble < 6 mm (1/4")

Initials: MAN Date: 05/21/20

Notes: _____

| Login Completion | Yes | No | NA |
|---|---|---|---|
| Receipt Temperature on COC? | ☑ | ☐ | ☐ |
| NCM Filed? | ☐ | ☐ | ☑ |
| Log Release checked in TALS? | ☑ | ☐ | ☐ |

Initials: MAN Date: 05/21/20



eurofins | Environment Testing TestAmerica

ORIGIN ID:SYRA (315) 431-0171
R SERVICE CENTER
EUROFINS TESTAMERICA
48 BOSS RD
SYRACUSE, NY 13211
UNITED STATES US

SHIP DATE: 19MAY20
ACTWGT: 12.00 LB MAN
CAD: 0883373/CAFE3313

BILL RECIPIENT

TO SAMPLE RECIEVING
TESTAMERICA W. SACRAMENTO
880 RIVERSIDE PARKWAY

WEST SACRAMENTO CA 95605
(916) 373-5600
REF: NYSDEC GES FULTON 1COOLER

FedEx Express

TRK# 0201 1870 7198 0889

WED - 20 MAY 10:30A
PRIORITY OVERNIGHT

XH BLUA

95605
CA-US SMF

# Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-170154-1

**Login Number: 170154** **List Source: Eurofins TestAmerica, Buffalo**
**List Number: 1**
**Creator: Yeager, Brian A**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | GES |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | True | |
| Chlorine Residual checked. | N/A | |

# Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-170154-1

**Login Number: 170154**
**List Number: 2**
**Creator: Nuval, Mark-Anthony M**

**List Source: Eurofins TestAmerica, Sacramento**
**List Creation: 05/21/20 06:24 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 4.0C corr 4.5C |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | N/A | Received project as a subcontract. |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |