

## Daily Report

<b>Project:</b>	Durham Meadows Pipeline Installation	<b>Date:</b>	August 19, 2020
<b>Location:</b>	Maple Avenue and Main Street, Durham; Shared Access Driveway, Middletown	<b>Day of Week:</b>	Wednesday
<b>Project #:</b>	AECOM: 6061487	<b>Report No:</b>	141
<b>Contractor:</b>	Ludlow Construction	<b>Page:</b>	1 of 13

## Weather Conditions

**Conditions:** Daylight hours. Sunny. Winds variable 0-5 mph.

**Temperature (°F):** High 76°F Low 57°F

Contractors & Subcontractors Workforce					Equipment in Use								
Trade	#	x	hrs		Trade	#	x	hrs		Type	#	x	hrs
USACE					Ludlow Construction					Concrete/Asphalt Road Saw	1	x	8
Field Engineer	1	x	8		Superintendent	0	x	8		Dump truck	5	x	8
					Safety Officer	1	x	8		Excavator – Large	3	x	8
					Foreman	2	x	8		Excavator - Mid-Size	1	x	8
Northeastern Steel					Dump truck Operator	4	x	8		Excavator - Rubber Wheeled – Rock	0	x	8
Superintendent	1	x	8		Excavator Operator	4	x	8		Skid Steer / Bucket Loader	1	x	8
Laborers	4	X	8		Skid Steer/Bucket Loader	1	x	8		Rolling Compactor	0	x	8
					Laborers	6	X	8		Plate Compactor	2	x	8
					<i>Note that some persons</i>					Jumping Jack Compactor	2	x	8
					<i>Multiple pieces equipment.</i>					Street Sweeper (Broce Broom)	1	x	8
										Material Hopper	0	x	8
					Sub-contractor	3	X	8		Pipe saw	1	x	8
					Municipal Police Detail	0	X	8		Light Tower	0	x	8
					State Police Detail	2	X	8					

**Visitors:** None.

## Pipe Connections, Installations, and Other Work

DN Tanks subcontractor Northeastern Steel was on site today to help with the placement and fastening of rebar for the water tank construction. DN Tanks took delivery of 5 trucks of 4000 PSI concrete and placed it on the two water tank side panel forms and two water tank dome section forms.

Ludlow installed a curb stop and a corporation stop at 13 Maple Avenue, Durham, and extended the service line into the basement of the residence.

Ludlow placed 8" and 12" DIP on Maple Avenue (just south of Station 900+00). This included the installation of: 12" DIP from Stations 900+42 to 900+04, 8" DIP from Stations 900+04 to 899+80, an 8" gate valve at Station 899+80, two 12" gate valves at Station 900+10.5, a 12"x12"x8" WYE at Station 900+04, and a 12" gate valve on the south side of the 12" WYE.

Ludlow installed curb stops today at 252, 248, 246, and 242 Main Street (Stations 189+74, 190+21, 190+90, and 191+76, respectively).

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### Compaction Testing

Soil compaction testing was performed today. Compaction test data for the project can be found here:

<https://www.nae.usace.army.mil/Portals/74/docs/Topics/DurhamMeadowsWaterline/CompactionTests/>

In addition, soil compaction data is presented in the Contractor Daily Quality Control Reports located here:

<https://www.nae.usace.army.mil/Missions/Projects-Topics/Durham-Meadows-Water-Lines-Project/>

### Daily Activities – Water Tank Construction, Shared Access Road, Middletown

DN Tanks subcontractor Northeastern Steel was on site today to help with the placement and fastening of rebar for the water tank construction. DN Tanks took delivery of 5 trucks of 4000 PSI concrete and placed it on the two water tank side panel forms and two water tank dome section forms.

0705: Northeastern Steel is back at the water tank work zone to place and fasten rebar on the concrete forms for the water tank. In addition, they have placed additional rebar over the top of the frost wall.

1005: The first truck of 4000 PSI concrete arrives at the water tank work zone from Farmington Ready-Mix. JTC is collecting samples of the mix for field and lab analysis. DN Tanks is beginning to pour concrete onto the first of two water tank side panel concrete forms. Northeastern Steel has five laborers currently placing and fastening rebar to the other concrete forms.

1142: DN Tanks has finished placing concrete on the first of two side panels for the water. They are currently performing finish work on the surface of the concrete.

1207: A third truck of 4000 PSI concrete arrives at the water tank work zone from Farmington Ready-Mix. JTC is collecting samples of the mix for field and lab analysis.

### Daily Activities – Installation of curb stop and service line, 13 Maple Avenue, Durham

Ludlow installed a curb stop and a corporation stop at 13 Maple Avenue, Durham, and extended the service line into the basement of the residence.

0742: Ludlow is in the process of trenching the front yard of 13 Maple Street, Durham for the installation of a curb stop. They are bringing the service line into the basement of the residence by drilling a hole through the foundation.

0813: Ludlow continues with the installation of a curb stop at 13 Maple Avenue.

0915: Ludlow has installed the curb stop at 13 Maple Avenue 16' from edge of pavement. Ludlow has run 1" copper service line through the foundation of the residence into the basement, where is meter will be placed some time in the near future.

1056: JTC is collecting soil compaction data at 13 Maple Avenue, Durham.

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### Daily Activities – Installation of 8" and 12" DIP, Maple Avenue, Durham

Ludlow placed 8" and 12" DIP on Maple Avenue (just south of Station 900+00). This included the installation of: 12" DIP from Stations 900+42 to 900+04, 8" DIP from Stations 900+04 to 899+80, an 8" gate valve at Station 899+80, two 12" gate valves at Station 900+10.5, a 12"x12"x8" WYE at Station 900+04, and a 12" gate valve on the south side of the 12" WYE.

1130: Ludlow is working just south of Station 900 on Maple Avenue, Durham as they prepare to connect the existing 8" DIP waterline to the 12" DIP coming from the south of the Maple Avenue stream crossing.

1220: Ludlow has installed an 8" gate valve on the north end of the existing 8" DIP waterline on Maple Avenue in Durham. Ludlow has installed a 3' section of 8" DIP to the 8" gate valve, with a 1" copper blow off placed on the northern end of 8" DIP.

1231: Ludlow installs a 22° bend at the north end of the 3' section of 8" DIP they just installed.

### Daily Activities – Installation of Curb Stops, Main Street, Durham

Ludlow installed curb stops today at 252, 248, 246, and 242 Main Street (Stations 189+74, 190+21, 190+90, and 191+76, respectively).

0725: Ludlow has begun to excavate a trench on the southbound lane of Main Street, Durham for the installation of a curb stop at 252 Main Street (Station 189+74). Traffic management is being provided by two State Troopers and one private flagger.

0832: Ludlow has curb stop installed at 252 Main Street 42 feet from edge of pavement. Ludlow is currently backfilling the curb stop trench.

0855: Ludlow is currently installing a curb stop at 248 Main Street, Durham (Station 190+21). The curb stop will be set 41' back from edge of pavement.

1038: Ludlow is finishing the installation of a curb stop at Station 190+21 (248 Main Street, Durham). Ludlow is in the process of excavating a trench to install a curb stop at Station 190+90 (246 Main Street). JTC is on site to perform soil compaction testing.

1122: Ludlow is excavating for the installation of a curb stop at Station 191+76 (242 Main Street, Durham) 41' from edge of pavement. The curb stop for 246 Main Street was installed 42.5 feet from edge of pavement.

1217: Ludlow is cleaning up the curb stop work zones on Main Street with the Broce broom.

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Picture 1: Rebar placed on frost wall of the water tank footprint by Northeastern Steel. Water tank work zone, east of the Shared Access Driveway, Middletown. View to the west.

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Picture 2: DN Tanks placing 4000 PSI concrete on the first of two concrete forms for the side panels of the water tank. East of the Shared Access Driveway, Middletown. View to the south.



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Picture 3: Northeastern Steel fastening rebar with wire ties on top of chairs on one of the two water tank side panel concrete forms. Water tank work zone, east of the Shared Access Driveway, Middletown.

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**Picture 4: DN Tanks finishing the surface of concrete placed on one of the two water tank side panel concrete forms. Water tank work zone, east of the Shared Access Driveway, Middletown. View to the east.**



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Picture 5: Ludlow preparing to penetrate the basement wall of the residence at 13 Maple Avenue, Durham in order to bring a 1" copper service line into the house.

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**Picture 6: Trench that Ludlow has excavated for the installation of a curb stop and 1" copper service line at the residence at 13 Maple Avenue, Durham. View to the north.**

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Picture 7: Ludlow tapping existing 8" water line at 13 Maple Avenue, Durham in order to install a corporation stop.

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Picture 8: JTC collecting soil compaction data at the water service installation at 13 Maple Avenue, Durham. View to the north.



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Picture 9: Ludlow connecting to the existing 8" DIP water line to the 12" DIP that they previously installed south of the Maple Avenue stream crossing. View to the north.



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Picture 10: Ludlow preparing to connect 8" DIP to WYE fitting coming off of the 12" DIP on Maple Avenue, Durham.

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