

## Daily Report

<b>Project:</b>	Durham Meadows Pipeline Installation	<b>Date:</b>	August 20, 2020
<b>Location:</b>	Maple Avenue and Main Street, Durham; Shared Access Driveway, Middletown	<b>Day of Week:</b>	Thursday
<b>Project #:</b>	AECOM: 6061487	<b>Report No:</b>	142
<b>Contractor:</b>	Ludlow Construction	<b>Page:</b>	1 of 11

### Weather Conditions

**Conditions:** Daylight hours. Sunny. Winds variable 0-4 mph.

**Temperature (°F):** High 81°F Low 61°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	2	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	1	X	8					

**Visitors:** Carl Niemitz, USACE.

## 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 curb stops at Station 193+18 (238 Main Street, Durham) and Station 194+32 (228 Main Street, Durham).

Ludlow installed hydrants at Stations 900+87.5, 906+90, 913+40, and 918+38.

Ludlow shim coated several portions of the water line trench patch on the southbound lane of Main Street.

## Compaction Testing

Soil compaction testing was not performed today. Compaction test data for the project can be found here:

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**Date:** 8/20/20

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<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 Driveway, 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.

0916: Northeastern Steel has 4 laborers placing and fastening rebar on the concrete forms for the water tanks. Rebar has already been placed on the first of two water tank side panel forms. This includes the placement of a steel manway that is 37" in diameter. JTC is on site waiting for the first truck of 4000 PSI concrete to arrive in order to collect samples for field and lab analysis.

1112: A second truck of 4000 PSI concrete arrives from CT Ready Mix. DN Tanks gets ready to pour concrete in the second half of the first water tank side panel form, pending the results of a percent-air test by JTC.

1117: JTC begins to collect 6 concrete samples for lab analysis from the second truck of 4000 PSI concrete.

1402: The fourth truck of 4000 PSI cement has just arrived at the water tank work zone. DN Tanks has covered the concrete that was placed on the first water tank side panel form with poly sheeting. They have the second water tank side panel form half-filled with concrete. Ludlow rejected the third truck of concrete, as the percent air was 9.0%.

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

Ludlow installed curb stops at Station 193+18 (238 Main Street, Durham) and Station 194+32 (228 Main Street, Durham).

0715: Ludlow is beginning to excavate at Station 193+18 (238 Main Street, Durham) on the southbound lane of Main Street for the installation of a curb stop. Traffic management is being provided by one State Trooper and one private flagger.

0850: Ludlow encounters some water in the trench at Station 193+18 while installing a curb stop. Ludlow is not pumping the water from the trench.

1158: Ludlow is backfilling the trench for the curb stop they just installed at Station 194+32. The curb stop is 43.5' from the edge of pavement.

1239: Ludlow is nearly finished installing a curb stop at Station 194+32, which is one of the two curb stops servicing 228 Main Street, Durham.

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### Daily Activities – Installation of Hydrants, Durham

Ludlow installed hydrants at Station 900+87.5, 906+90, 913+40, and 918+38.

0733: Ludlow is beginning to excavate for the installation of a hydrant on Maple Avenue, Durham, at Station 900+87.5.

0811: Ludlow has the hydrant at Station 900+87.5 installed and is currently backfilling.

0842: Ludlow is excavating at Station 906+90 on Maple Avenue, Durham, in order to install a hydrant.

0929: Ludlow continues to install a hydrant on Maple Avenue at Station 906+87.5.

1122: Ludlow has just finished the installation of hydrant at Station 913+40.

1145: Ludlow is excavating a trench for the installation of a hydrant at Station 918+38 on Maple Avenue, Durham.

1304: Ludlow has finished installing a hydrant at Station 918+38 on Maple Avenue, Durham. Ludlow is currently cleaning up the road with the Broce Broom and demobilizing equipment from the work zone.

### Daily Activities – Shim Coating, Durham

Ludlow shim coated several spots of the water line trench patch along the southbound lane of Main Street.

1342: Ludlow is shim coating the waterline trench in front of 262 Main Street, Durham.

1355: Ludlow is shim coating the waterline trench in front of 242 Main Street, Durham.

1425: Ludlow just finished shim coating on the southbound lane of Main Street at Station ~209+00 (at the intersection of Main Street and Old Cemetery Road, Durham).

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Picture 1: Ludlow installing a hydrant at Station 900+87.5. Maple Avenue, Durham. View to the north.

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Picture 2: Ludlow trenching at Station 193+18 (238 Main Street, Durham) for the installation of a curb stop. View to the east.

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**Picture 3: One of the two concrete forms for the water tank's top, where poly sheeting was placed over setting concrete. Water tank work zone, east of the Shared Access Driveway, Middletown.**

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Picture 4: Rebar placed and fastened on one of the side panel concrete forms, with a 37" diameter manway also secured onto the form. Water tank work zone, east of the Shared Access Driveway, Middletown. View to the west.

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Picture 5: The footprint of the water tank with additional rebar placed since yesterday. Water tank work zone, east of the Shared Access Driveway, Middletown. View to the south.

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**Picture 6: Ludlow compacting soil around a hydrant that they are in the process of installing at Station 906+90. Maple Avenue, Durham.**

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**Picture 7: 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 west.**

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Picture 8: Ludlow cleaning up work zone after having installed a hydrant at Station 918+38. Maple Avenue, Durham. View to the west.

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