

## Daily Report

<b>Project:</b>	Durham Meadows Pipeline Installation	<b>Date:</b>	August 18, 2020
<b>Location:</b>	Maple Avenue and Main Street, Durham; Shared Access Driveway, Middletown	<b>Day of Week:</b>	Tuesday
<b>Project #:</b>	AECOM: 6061487	<b>Report No:</b>	140
<b>Contractor:</b>	Ludlow Construction	<b>Page:</b>	1 of 11

## Weather Conditions

**Conditions:** Daylight hours. Sunny. Winds variable 0-8 mph.

**Temperature (°F):** High 83°F Low 60°F

Contractors & Subcontractors Workforce					Equipment in Use							
Trade	#	x	hrs		Trade	#	x	hrs	Type	#	x	hr
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	3	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:** None.

## Pipe Connections, Installations, and Other Work

Ludlow excavated a test pit on Maple Avenue (just south of Station 900+00) to daylight the northern end of the existing 8" water line confirms that the joints are restrained and to install an 8" bell clamp to restrain the bell joint.

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 6 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 12" DIP on Maple Avenue from Stations 907+47 to 906+56. This includes the installation of a 12" M.J. R.S. gate valve and valve box at Station 906+56 and a hydrant assembly (12"x12"x6" M.J. hydrant TEE with a 6" M.J. gate valve and gate box) at Station 906+86.

Ludlow installed curb stops today at 272, 268, 262, and 256 Main Street (Stations 185+56, 186+34, 187+64, and 188+64, respectively).

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### Compaction Testing

Soil compaction testing was not 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 – Restraining of existing 8” waterline pipe, Maple Avenue, Durham

Ludlow excavated a test pit on Maple Avenue (just south of Station 900+00) to daylight the northern end of the existing 8” water line confirms that the joints are restrained and to install an 8” bell clamp to restrain the bell joint.

1105: Ludlow has a test pit open on Maple Avenue to install an 8” bell clamp on the existing 8” water line.

1138: Ludlow continues with test pit excavation on Maple Avenue.

1057: Ludlow continues to daylight the existing 8” waterline on Maple Avenue.

1209: Ludlow discovers that there isn’t a gate valve at the north end of the existing 8” water line on Maple Avenue. Ludlow is currently backfilling the excavation.

### 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 6 trucks of 4000 PSI concrete and placed it on the two water tank side panel forms and two water tank dome section forms.

0724: Northeastern Steel is working at the water tank work zone placing rebar on the two water tank side panel forms and the two water tank dome panel forms. DN Tanks poured concrete on the two dome panel forms late yesterday afternoon.

1023: The first truck of 4000 PSI concrete arrives at the water tank work zone. JTC is on site to collect concrete samples for field and lab analysis.

1029: JTC is collecting a sample of concrete for field analysis from the first truck. Northeastern Steel has 4 people placing and fastening rebar on one of the water tank side panel concrete forms.

1040: DN Tanks begins to pour concrete on the water tank side panel concrete form that Northeastern Steel is not currently working on.

1237: Farmington Ready-Mix is delivering another load of 4000 PSI concrete to the water tank work zone. Northeastern Steel is placing rebar on the two water tank dome panel concrete forms. DN Tanks has finished placing concrete on one of the two water

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tank side panel concrete forms and are preparing to place concrete on the water tank side panel concrete form.

1317: Northeastern Steel continues to place rebar on the two water tank dome panel concrete forms. DN Tanks continues to place and concrete on the second water tank side panel concrete form.

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

Ludlow installed 12" DIP on Maple Avenue from Stations 907+47 to 906+56. This includes the installation of a 12" M.J. R.S. gate valve and valve box at Station 906+56 and a hydrant assembly (12"x12"x6" M.J. hydrant TEE with a 6" M.J. gate valve and gate box) at Station 906+86.

0710: Ludlow has resumed the installation of 12" DIP on Maple Avenue at Station 907+47.

0849: Ludlow has 12" DIP installed up to Station 906+70 and they are preparing to connect a 12' section of the pipe to a gate valve that Ludlow installed today at Station 906+56 using a megalug connection. The north section of the pipe will be connected at Station 906+70 to the 12" DIP they just installed using a solid sleeve.

0943: Ludlow has finished installing 12" DIP on Maple Avenue. This includes the installation of a hydrant assembly (12"x12"x6" M.J. hydrant TEE with a 6" M.J. gate valve and gate box) at Station 906+71.

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

Ludlow installed curb stops today at 272, 268, 262, and 256 Main (Stations 185+56, 186+34, 187+64, and 188+64, respectively).

0738: Ludlow is beginning to install a curb stop at Station 185+56 (the Notre Dame Rectory located at 272 Main Street). The curb stop will be placed 40' from the edge of pavement.

0912: Ludlow has begun to install a curb stop at Station 186+34 (268 Main Street, Durham).

1009: Ludlow has a trench excavated for the installation of a curb stop at Station 187+64 (262 Main Street). Ludlow is currently using the pneumatic "mole" to advance a hole for the 1" copper service line underneath the sidewalk and a short stone wall next to the residence. The curb stop will be installed 40' from the edge of pavement.

1125: Ludlow continues to work on the installation of a curb stop at Station 187+64 (262 Main Street, Durham).

1219: Ludlow is using a pneumatic "mole" to get underneath the sidewalk at 256 Main Street where they are installing a curb stop 42 feet from edge of pavement.

1258: Ludlow has finished placing a curb stop at the 256 Main Street residence at Station 188+64 and is currently backfilling the trench.

1326: Ludlow is cleaning up the work zones where they installed curb stops today on Main Street in Durham.

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**Picture 1: Rebar placed on water tank footprint by Northeastern Street. Water tank work zone, east of the Shared Access Driveway, Middletown. View to the northwest.**

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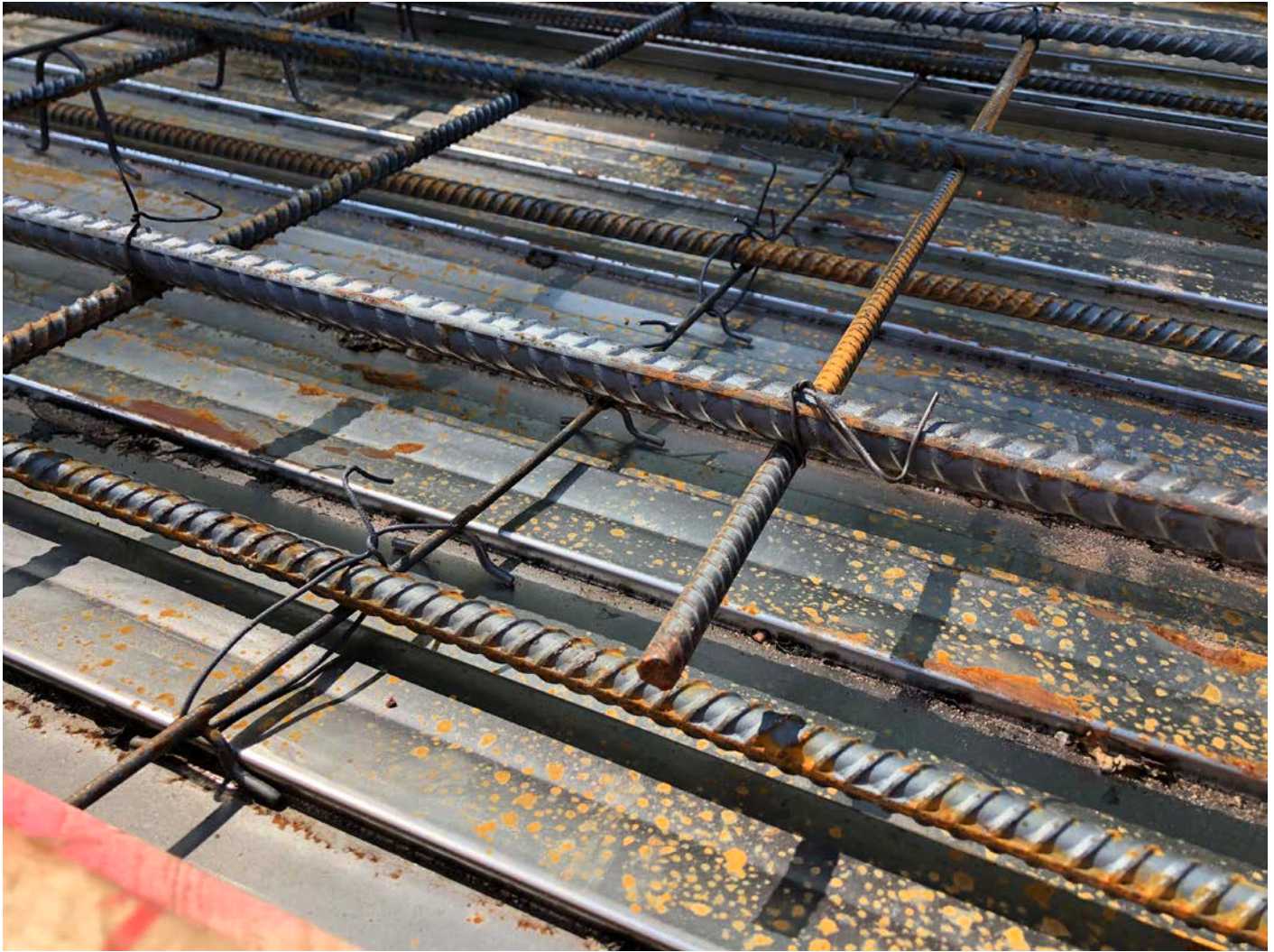
**Picture 2: Rebar placed on top of chairs on one of the two water tank side panel concrete forms. Water tank work zone, east of the Shared Access Driveway, Middletown.**

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Picture 3: Rebar (fastened with wire) that has been placed 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: Northeastern Steel placing rebar 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. View to the west.**



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**Picture 5: Northeastern Steel placing rebar on top of chairs on one of the two water dome panel concrete forms. Water tank work zone, east of the Shared Access Driveway, Middletown. View to the northwest.**



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**Picture 6: 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 east.**



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**Picture 7: The first of two concrete forms with 4000 PSI concrete curing after being placed today. Water tank work zone, east of the Shared Access Road, Middletown. View to the east.**

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Picture 8: Ludlow excavating on Maple Avenue (just south of Station 900+00) to daylight the northern end of the line in order to assess what they will need for hardware in order to connect the existing line to the 12" DIP they will soon install south of Station 900+00 on Maple Avenue. View to the north.