

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 7, 2020
Location:	Maiden Lane, Pickett Lane, Main Street	Day of Week:	Tuesday
Project #:	AECOM: 6061487	Report No:	114
Contractor:	Ludlow Construction	Page:	1 of 11

Weather Conditions

Conditions: Daylight hours. Partly sunny. Winds variable 0-10 mph.

Temperature (°F): High 73°F Low 66°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	2	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
					Dump truck Operator	4	x	8	Excavator - Rubber Wheeled – Rock	0	x	8
					Excavator Operator	4	x	8	Skid Steer / Bucket Loader	1	x	8
					Skid Steer/Bucket Loader	1	x	8	Rolling Compactor	1	x	8
					Laborers	6	X	8	Plate Compactor	1	x	8
					<i>Note that some persons</i>				Jumping Jack Compactor	1	x	8
					<i>Multiple pieces equipment.</i>				Street Sweeper (Broce Broom)	1	x	8
									Material Hopper	1	x	8
					Sub-contractor	1	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:

Pipe Connections, Installations, and Other Work

Ludlow continued work on the stream crossing on Pickett Lane at Station ~511+00.

Ludlow performed saw cutting of pavement on the southbound lane of Main Street in Durham.

Ludlow installed 4 hydrants today on the north side of Maiden Lane at Stations 425+48, 420+48, 415+48, and 405+40.

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:

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Date: 7/07/20

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

Daily Activities –Saw cutting of Pavement, Main Street, Durham

Ludlow performed saw cutting of pavement on the southbound lane of Main Street in Durham.

0740: Ludlow is saw cutting on Main St., Durham at Station 168+80 approximately. One state trooper providing traffic management.

0757: Ludlow saw cutting on the southbound land of Main Street in Durham at Station 171+15.

1402: Ludlow continues to saw cut on the southbound lane of Main Street in Durham and is currently working just south of Talcott Lane.

Daily Activities – Stream Crossing, Pickett Lane, Durham

Ludlow continued work on the stream crossing on Pickett Lane at Station ~511+00.

0705: Ludlow is resuming work at Pickett Lane. They are currently welding two pieces of 36" conduit together. Traffic management provided by Ludlow.

0730: Ludlow continues to weld conduit together. Ludlow is performing minor excavation on the west side of Allyn Brook. Ludlow continues to pump water from work zone into the frac tank and the filter bed staged on the east side of the brook. Water in the frac tank settled some overnight, which has resulted in less turbid water overflowing into the filter bed and then into the brook. No obvious release of silt to the brook is currently being observed.

0810: Ludlow continues to weld 36" conduit.

0838: Ludlow has finished welding the 36" conduit. Ludlow is currently fill material to backfill over the welded conduit.

0910: Ludlow is hammering bedrock on the west shore of Allyn Brook.

0935: Ludlow has removed hammered rock from trench and are now mobilizing the hammer back to the trench to break up additional bedrock.

1040: Ludlow has finished hammering rock on the shoreline west of the stream bank.

1105: Ludlow has set up the trench box on the west bank of Allyn Brook to continue excavation activities. A pump has been set in gravel at the bottom of the trench to depress the water level.

1125: Ludlow has backfilled over the 36" conduit in the brook channel with riprap stone roughly 5"-6" in size. Ludlow then placed some native stream bed material on top of the riprap. Ludlow continues to use pumps in the work zone to keep the water level in the work zone depressed.

1130: Ludlow is prepping 12" DIP to insert into 36" conduit. Two 20' sections of 12" DIP have been outfitted with casing spacers.

1230: Ludlow is trenching on the east side of Allyn Brook in order to assist getting the 12" DIP inserted into the 36" conduit that has

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been installed beneath the stream bed.

1300: Ludlow is installing both 20' sections of the 12" DIP in the 36" conduit.

1330: Ludlow has finished installing two 20' sections of 12" DIP into the 36" conduit. The spacer tolerance (35.25" diameter) was too tight for the 36" conduit. Ludlow removed 1 of the 4 rubber bumpers from each spacer to get the 12" DIP inserted into the 36" conduit. The bumpers removed were the ones at the top of the DIP.

Daily Activities – Hydrant Installation, Maiden Lane, Durham

Ludlow installed 4 hydrants today on the north side of Maiden Lane at Stations 425+48, 420+48, 415+48, and 405+40.

0721: Ludlow working at Station 425+48 to install a hydrant on the northside of Maiden Lane. Traffic management is being provided by two private flaggers.

0802: Ludlow encountered about 1' of water in the trench at Station 425 +48. Ludlow is currently pumping the water out of the trench into an adjoining field.

0848: Ludlow has hydrant installed at Station 425+48 and is currently backfilling the trench. The pumper nozzle of the hydrant is 29" off of the edge of pavement.

0930: Ludlow has moved to Station 420+48 to install another hydrant on the north side of Maiden Lane.

1005: Ludlow is installing a hydrant at Station 420+48. Almost a foot of water is observed in the trench.

1049: Ludlow is backfilling the trench at Station 420+48. The pumper nozzle of the hydrant is 22" from edge of pavement.

1115: Ludlow is excavating at Station 415+48 to install another hydrant on the north side of Maiden Lane.

1206: Ludlow has hydrant installed at Station 415+48 and is currently pumping water out of the trench. The pumper nozzle of the hydrant is 28" off the edge of pavement.

1305: Ludlow moves to Station 405+40 to install another hydrant on the north side of Maiden Lane. Sheet C-37 has the hydrant placed at Station 405+31; however, this would have resulted in the hydrant being placed in the driveway of 24 Maiden Lane.

1321: Ludlow excavating at Station 405+40 to install a hydrant.

1345: Ludlow has hydrant installed at Station 405+40 and is currently backfilling.

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Picture 1: Condition of Allyn Brook prior to earth work being performed at the stream crossing at Station ~511+00 today. Pickett Lane, Durham. View to the north.

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Picture 2: Trench box on the west bank of Allyn Brook during pipe installation activities. The 36" conduit has been backfilled with sand. Station ~511+00, Pickett Lane, Durham. View to the west.

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Picture 3: Allyn Brook after the 36" conduit was backfilled with sand. Station ~511+00, Pickett Lane, Durham. View to the north.

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Picture 4: Minor turbidity observed downstream of ongoing stream crossing activities. Station ~511+00, Pickett Lane, Durham. View to the north.

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Picture 5: Ludlow preparing to insert 12" DIP with casing spacers into the 36" conduit. Station ~511+00, Pickett Lane, Durham. View to the northeast.

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Picture 6: Overview of stream crossing work zone; view to east. 36" conduit is visible in the foreground within the trench box. Station ~511+00, Pickett Lane, Durham. View to the east.

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Picture 7: 36" conduit with 12" DIP placed inside of it. Station ~511+00, Pickett Lane, Durham. View to the east.

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Picture 8: Ludlow installing hydrant at Station 405+40. The tape measure is located at Station 405+31, where the hydrant was originally located on Sheet C-37. View to the southeast from the driveway of 24 Maiden Lane, Durham.