

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	1 of 17

Weather Conditions

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

Temperature (°F): High 89°F Low 64°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	0	X	8				

Visitors:

Pipe Connections, Installations, and Other Work

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

Ludlow continued work on the water tank footprint at the top of the Shared Access Driveway. In addition, Ludlow placed hot patch at the east end of the Shared Access Driveway.

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/>

Res. Representative: J. Meunier

Date: 7/06/20

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	2 of 17

Daily Activities –Shared Access Driveway, Middletown

Ludlow continued work on the water tank footprint at the top of the Shared Access Driveway. In addition, Ludlow placed hot patch at the east end of the Shared Access Driveway.

0705: Ludlow is staging at the water tank footprint at the top of the Shared Access Driveway to resume earth work.

0814: Ludlow has placed filter fabric on the ring of soil at elevation 437 within the tank footprint and is currently covering the fabric with 0.5' of ½" gravel.

0835: Ludlow is using two plate compactors to compact ½" gravel at elevation 437.5.

0915: Ludlow continues to place and compact ½" gravel on the ring of soil at elevation 437.5 within the tank footprint.

1005: Ludlow is refining the trench within the water tank footprint where the tank supply line will be installed.

1151: Ludlow continues to refine the trench for the water tank supply and feed lines.

1322: Ludlow is placing hot patch at the top of the Shared Access Driveway, extending the pavement east by 30'.

1330: Ludlow is rolling hot patch at the top of Shared Access Driveway.

Daily Activities – Stream Crossing, Pickett Lane, Durham

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

0725: Ludlow is receiving a delivery of a frac tank from United Rentals at the stream crossing at Station ~511+00, Pickett Lane, Durham. The frac tank will be used for water pumped from the work zone in the stream. Ludlow is staging on the west side of Allyn Brook to continue with the stream crossing. Ludlow is currently pumping water out of a work zone into the filter bed they constructed on the east bank of Allyn Brook last week.

0748: Ludlow is clearing brush from the west side of the bank of Allyn Brook at Station ~511+00.

0800: Ludlow is settling frac tank into place.

0810: Ludlow is currently pumping water from the work zone directly to the filter bed they constructed last week.

0830: Ludlow is installing more pumps in the work zone in the stream. These are discharging to the frac tank.

0840: Ludlow has started trenching and has encounter bedrock. Little silt is observed to be released downstream of the work zone.

0855: AECOM checks on the settling of the frac tank contents. No baffles are observed in the tank.

0930: Ludlow is hammering out about 2' of bedrock in the work zone to allow access to weld 36" conduit.

Res. Representative:	J. Meunier	Date:	7/06/20
-----------------------------	------------	--------------	---------

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	3 of 17

1030: Ludlow adjusts stream flow bypass culvert to redirect water away from work zone in stream; minimal release of silt downstream of the work zone observed.

1053: Ludlow continues to hammer rock to lengthen trench.

1200: Ludlow continues to hammer rock and is currently using a jack hammer to hand clear around pipe. Ludlow is prepping the next section 36" conduit to install. Water is overflowing frac tank into the filter bed.

1210: Ludlow is excavating rock and installing gravel base in trench for 36" conduit.

1230: Ludlow is prepping 36" conduit in trench for welding.

1240: Ludlow is installing ~15' of 36" conduit and setting up to weld it to the piece of 36" conduit installed last week.

1300: Ludlow is welding two pieces of installed 36" conduit together.

--

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	4 of 17



Picture 1: United Rentals placing frac tank at Station ~511+00 as part of ongoing stream crossing activities. Pickett Lane, Durham. View to the northwest.

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	5 of 17



Picture 2: Condition of Allyn Brook prior to stream crossing activities today. Station ~511+00, Pickett Lane, Durham. View to the north.

Res. Representative:	J. Meunier	Date:	7/06/20
-----------------------------	------------	--------------	---------

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	6 of 17



Picture 3: Turbidity in Allyn Brook downstream of the work zone at Station ~511+00 after stream crossing activities began. Pickett Lane, Durham. View to the north.

Res. Representative:	<u>J. Meunier</u>	Date:	<u>7/06/20</u>
-----------------------------	-------------------	--------------	----------------

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	7 of 17



Picture 4: Ludlow staged on the west bank of Allyn Brook as they begin to excavate the bank and stream bed for the placement of 36" conduit. Station ~511+00, Pickett Lane, Durham. View to the west.

Res. Representative:	J. Meunier	Date:	7/06/20
-----------------------------	------------	--------------	---------

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	8 of 17



Picture 5: View of trench box installed on the west bank of Allyn Brook for the excavation of the stream bank and stream bed for the placement of 36" conduit. Station ~511+00, Pickett Lane, Durham. View to the north.

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	9 of 17



Picture 6: Water being pumped from work zone into filter bed that Ludlow placed on the east bank of Allyn Brook. Station ~511+00, Pickett Lane, Durham. View to the northwest.

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	10 of 17



Picture 7: Turbidity in Allyn Brook downstream of the work zone at Station ~511+00 during stream crossing activities. Pickett Lane, Durham. View to the north.

Res. Representative:	<u>J. Meunier</u>	Date:	<u>7/06/20</u>
-----------------------------	-------------------	--------------	----------------

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	11 of 17



Picture 8: Ludlow hammering rock on the west bank of Allyn Brook. Station ~511+00, Pickett Lane, Durham. View to the west.

Res. Representative:	J. Meunier	Date:	7/06/20
-----------------------------	------------	--------------	---------

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	12 of 17



Picture 9: View of 36" conduit being placed across stream bed to meet another piece of 36" conduit that was installed last week. Station ~511+00, Pickett Lane, Durham. View to the east.

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	13 of 17



Picture 10: Ludlow placing No.67 ½" gravel on top of filter fabric on the ring of soil at elevation 437 within the water tank footprint. Shared Access Driveway, Middletown. View to the southeast.

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	14 of 17



Picture 11: Close-up of No. 67 1/2" gravel being placed in Picture 10. Water tank footprint, Shared Access Driveway, Middletown.

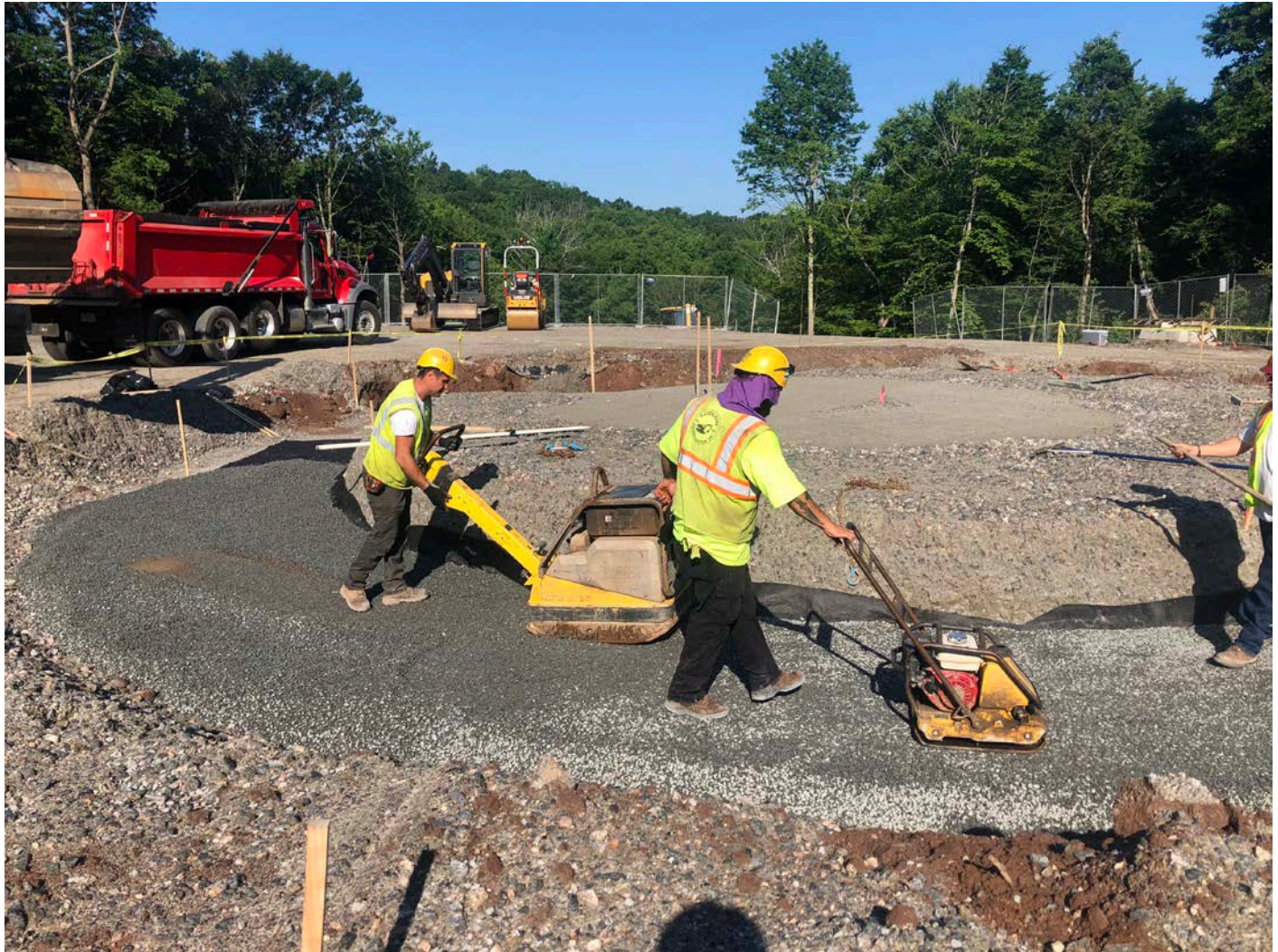
Res. Representative:

J. Meunier

Date: 7/06/20

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	15 of 17



Picture 12: Ludlow compacting ½" gravel at elevation 437.5 within the water tank footprint. Shared Access Driveway, Middletown. View to the west.

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	16 of 17



Picture 13: Ludlow refining grades and cuts in fill at the water tank footprint where the tank's supply and feed lines will be placed. Shared Access Driveway, Middletown. View to the southeast.

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 6, 2020
Location:	Pickett Lane, and the Shared Access Driveway	Day of Week:	Monday
Project #:	AECOM: 6061487	Report No:	113
Contractor:	Ludlow Construction	Page:	17 of 17



Picture 14: Ludlow extending the Shared Access Driveway to the east by ~30'. View to the east.

Res. Representative:	<u>J. Meunier</u>	Date:	<u>7/06/20</u>
-----------------------------	-------------------	--------------	----------------