

## Daily Report

<b>Project:</b>	Durham Meadows Pipeline Installation	<b>Date:</b>	October 23, 2019
<b>Location:</b>	Talcott Ridge Drive, Middletown CT	<b>Day of Week:</b>	Wednesday
<b>Project #:</b>	AECOM: 60445033	<b>Report No:</b>	19
<b>Contractor:</b>	Ludlow Construction	<b>Page:</b>	1 of 16

### Weather Conditions

**Conditions:** Daylight hours. 5% clouds, sunny, occasional wind.  
**Temperature (°F):** High 63°F Low 40°F

Contractors & Subcontractors Workforce								Equipment in Use							
Trade		#	x	hrs	Trade		#	x	hrs	Type		#	x	hrs	
USACE					Ludlow Construction					Concrete sawing machine		0	x	8	
Field Engineer		1	x	8	Superintendent		1	x	8	Dump truck		5	x	8	
					Safety Officer		1	x	8	Excavator - Large		1	x	8	
					Foreman		1	x	8	Skid Steer / Bucket Loader		1	x	8	
					Dump truck Operator		2	x	8	Plate Compactor		1	x	8	
					Excavator Operator		2	x	8	Jumping Jack Compactor		1	x	8	
					Skid Steer/Bucket Loader Op.		1	x	8	Light Tower		0	x	8	
					Laborers		4	x	8	Mid-size Excavator		1	x	8	
					Total 9 persons + 1 sub. Trucker					Tractor-style Excavator		0	x	8	
					Note that some persons operate					Pipe saw		1	x	8	
					Multiple pieces equipment.					Rolling Compactor		1	x	8	
					Sub-contractor					Street Sweeper (Broce Broom)		1	x	8	
					Dump truck Operator		1	x	8	Material Hopper		1	x	8	
					Middletown Police Dept.										
					Police Officer Detail		1	x	8						

**Visitors:** Justin Giuliano Water and Sewer  
Bobby Russo Public Works

### Notes:

**Begin at Sta. 41+49.34 and End at Sta. 40+71.71** Distance counts down as one proceeds up – east on - Talcott Ridge Dr.; distance is by length of pipe, not “road distance” uphill along Talcott.

**Pipe Connections:** Restrained, both with locks and megalugs. See figures for tie-offs to bends.

**Sediment Control:** Added to double catch basins either side of Talcott Ridge Drive at the bend in the road to the south.

**Drain Pipe Break:** Accidentally broke 18” drain pipe at 10 feet below grade. Trench was being deepened to allow for passage under existing 8” hydrant line and 12” main line at bend in Talcott Ridge Drive from east to south.

0800 – On site: Talcott Ridge Dr. Excavation on going with large (CAT 336E) excavator. Begin day at Sta. 41+49.34.

0845 – 25 feet and 4 inches installed to Sta. 41+24.01. This consisted of 1x20-foot 16” DI restrained plus 5-foot of 16” DI restrained and 4-inches for a 16” x 22.5° Bend to the south.

0910 – 15 feet 4 inches of restrained 16” DI installed to Sta. 41+08.67 and covered with 1-foot lift of stone dust. This includes 4” for the bend installed earlier (each bend adds 8 inches, split half and half with the run before and after the bend) plus 15 feet of pipe.

0950 – Have 30-35 feet of open trench. Hitting bedrock along the way, starting roughly at Sta. 41+14. Bedrock is fairly deep and does not appear to be much of an impedance.

**Res. Representative:**

W. Abrahams-Dematte

**Date:** 10/23/19

## Daily Report

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<b>Contractor:</b>	Ludlow Construction	<b>Page:</b>	2 of 16

1005 – Installing full 20-foot section of restrained 16” DI installed to Sta. 40+88.67. Next section of pipe will cross under 18” drain pipe connecting the two double catch basins located either side of Talcott at the curve in the road.

1030 – Trench ready for next installation. Crew of break.

1122 – Installing 16.5 feet of 16” DI plus 4 inches for a second 22.5<sup>0</sup> Bend for the day. Station at center of bend is Sta. 40+71.71.

1210 – Excavating for next section of pipe. Due to the need to soon cross under an existing hydrant service line and an existing water main the trenching depth was increased. However, the depth went a little to far and an 18” drain line coming from the double catch basin was hit, breaking a hole roughly 1 foot wide by 3 feet long. A measurement was taken from the 22.5<sup>0</sup> bend to determine if one more section of pipe could be installed as the trench was already opened, but the break occurred at almost exactly 20 feet meaning the bell of the pipe would be over the broken drain. This means that the final station for the day was Sta. 40+71.71 and the broken drain pipe was at approximately Sta. 40+52.

1250 – Working to unbury the break in the pipe and clean the soil out of the pipe. Pipe does not appear to be carrying any water that can be observed. Kurt (USACE) attempted to call Middletown Public Works, but only received an answering machine. He heads off to Public Works to contact them directly.

1300 – Andy (Ludlow) making a great effort to uncover and clean out drain pipe of the soil that collapsed into it when it was broken. Up until now the pipe appeared to be dry, but there is a steady stream of water now working its way through the pipe.

1315 – Justin Giuliano from Water and Sewer arrives on site. He notes that drains aren’t his department but he was asked to head up for initial check of the situation. He says that Bobby Russo of Public Works will be up shortly and that it is their department that handles drain lines.

1340 – Bobby Russo (Middletown Public Works) and Billy (Ludlow) agree that an ADS pipe insert will be a good fix for the situation. He leaves his number and business turns to cleaning up for the day. The cleaned out drain pipe is covered by some plywood and stone before being buried and trench filled.

1415 – Off Site.

### Payment Items:

## Daily Report

**Project:** Durham Meadows Pipeline Installation  
**Location:** Talcott Ridge Drive, Middletown CT  
**Project #:** AECOM: 60445033  
**Contractor:** Ludlow Construction

**Date:** October 23, 2019  
**Day of Week:** Wednesday  
**Report No:** 19  
**Page:** 3 of 16

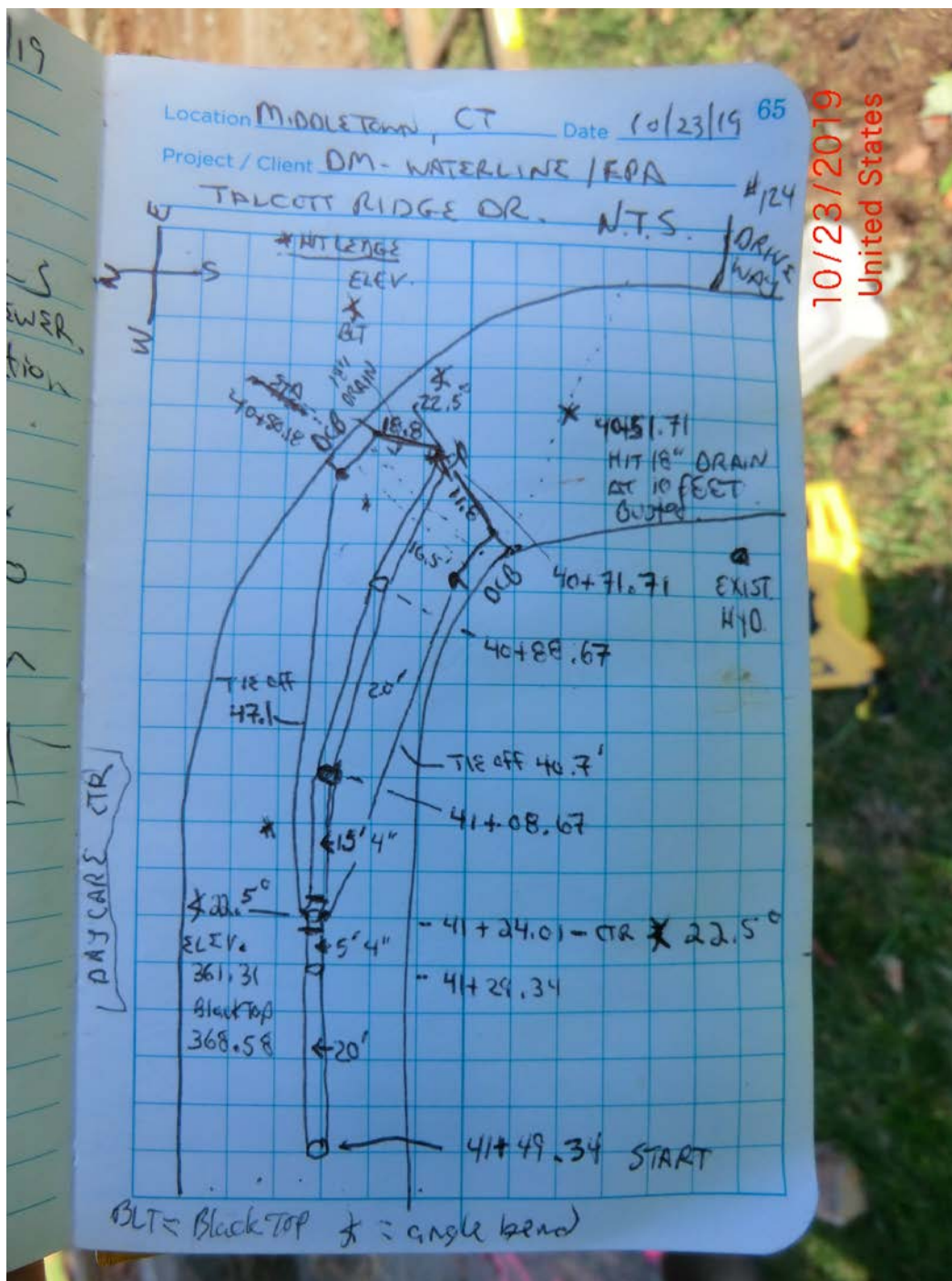


Figure 0 – Tie-offs and elevations for bends.

## Daily Report

<b>Project:</b>	Durham Meadows Pipeline Installation	<b>Date:</b>	October 23, 2019
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<b>Project #:</b>	AECOM: 60445033	<b>Report No:</b>	19
<b>Contractor:</b>	Ludlow Construction	<b>Page:</b>	4 of 16



Figure 1 – First 22.5 bend installed at Sta. 41+24.01. Partially covered to turn in excavation and moving of road box to next position. Note pipe is capped and pry bar is placed to hole cap in during this process.

## Daily Report

**Project:** Durham Meadows Pipeline Installation  
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**Project #:** AECOM: 60445033  
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**Date:** October 23, 2019  
**Day of Week:** Wednesday  
**Report No:** 19  
**Page:** 5 of 16



Figure 2 – Facing southeast. Staging pipe and valve assemblies and bends.

## Daily Report

**Project:** Durham Meadows Pipeline Installation  
**Location:** Talcott Ridge Drive, Middletown CT  
**Project #:** AECOM: 60445033  
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**Date:** October 23, 2019  
**Day of Week:** Wednesday  
**Report No:** 19  
**Page:** 6 of 16



Figure 3 – 6-foot assembly with two 16" butterfly valves on either end and a T section with 12" gate valve. Center of T to gate valve is 25 inches. Center of butterfly to butterfly valve is 72 inches. Note that this assembly will not be installed today due to drain pipe break.

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**Project #:** AECOM: 60445033  
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**Date:** October 23, 2019  
**Day of Week:** Wednesday  
**Report No:** 19  
**Page:** 7 of 16



Figure 4 – Picture facing west into trench. Attaching restrained pipe to first 22.5 bend using a mega-lug.

## Daily Report

**Project:** Durham Meadows Pipeline Installation  
**Location:** Talcott Ridge Drive, Middletown CT  
**Project #:** AECOM: 60445033  
**Contractor:** Ludlow Construction

**Date:** October 23, 2019  
**Day of Week:** Wednesday  
**Report No:** 19  
**Page:** 8 of 16



Figure 5 – Facing northeast. Extended trench, longer than usual, excavating for shallow drain pipe and positioning of shorter road boxes. Notice the ‘smoke’ coming off the excavator bucket. This is the excavator bucket scraping along bedrock.

## Daily Report

**Project:** Durham Meadows Pipeline Installation  
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**Project #:** AECOM: 60445033  
**Contractor:** Ludlow Construction

**Date:** October 23, 2019  
**Day of Week:** Wednesday  
**Report No:** 19  
**Page:** 9 of 16



**Figure 6 – Catch basin silt prevention on bend in Talcott Ridge. Note basin across street is connected by drain pipe shown in Figure 8.**

## Daily Report

**Project:** Durham Meadows Pipeline Installation  
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**Project #:** AECOM: 60445033  
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**Date:** October 23, 2019  
**Day of Week:** Wednesday  
**Report No:** 19  
**Page:** 10 of 16



Figure 7 – Facing North. Plate compaction

## Daily Report

<b>Project:</b>	Durham Meadows Pipeline Installation	<b>Date:</b>	October 23, 2019
<b>Location:</b>	Talcott Ridge Drive, Middletown CT	<b>Day of Week:</b>	Wednesday
<b>Project #:</b>	AECOM: 60445033	<b>Report No:</b>	19
<b>Contractor:</b>	Ludlow Construction	<b>Page:</b>	11 of 16

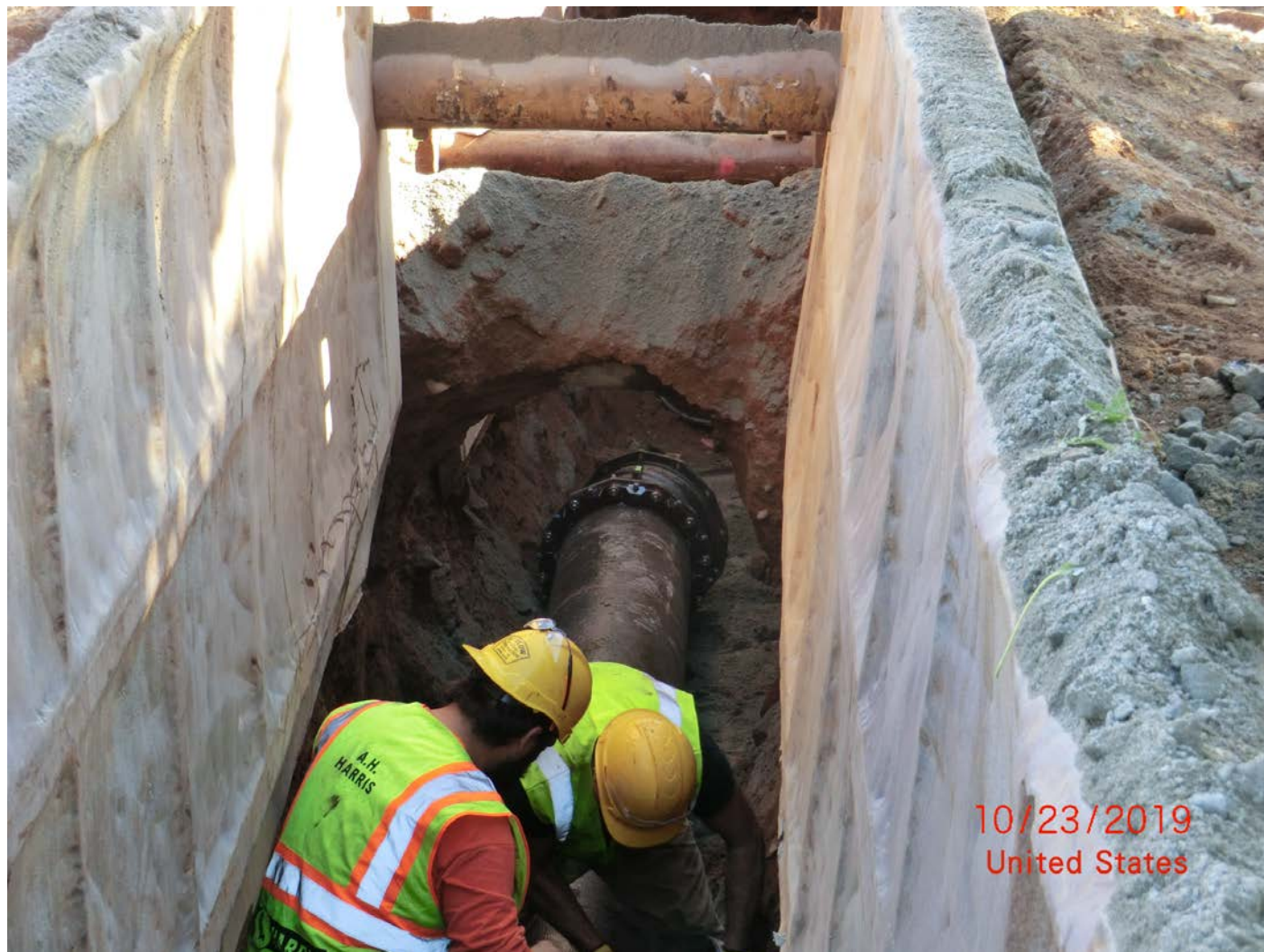


Figure 8 – Facing east into trench. Restrained connection, 22.5-degree bend, center of picture, crossing under drain pipe that connects two double catch basins located either side of Talcott where the road turns to the south.

## Daily Report

**Project:** Durham Meadows Pipeline Installation  
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**Project #:** AECOM: 60445033  
**Contractor:** Ludlow Construction

**Date:** October 23, 2019  
**Day of Week:** Wednesday  
**Report No:** 19  
**Page:** 12 of 16



Figure 9 – Facing east-northeast. Maneuvering 24-foot trench box.

## Daily Report

**Project:** Durham Meadows Pipeline Installation  
**Location:** Talcott Ridge Drive, Middletown CT  
**Project #:** AECOM: 60445033  
**Contractor:** Ludlow Construction

**Date:** October 23, 2019  
**Day of Week:** Wednesday  
**Report No:** 19  
**Page:** 13 of 16



**Figure 10 – Broken 18” drain line located at 10 feet below ground surface. Trench depth was being increased to allow for the passage of the 16” DI water pipe underneath the existing 12-inch water main that is buried to 6.5 feet.**

## Daily Report

**Project:** Durham Meadows Pipeline Installation  
**Location:** Talcott Ridge Drive, Middletown CT  
**Project #:** AECOM: 60445033  
**Contractor:** Ludlow Construction

**Date:** October 23, 2019  
**Day of Week:** Wednesday  
**Report No:** 19  
**Page:** 14 of 16



**Figure 11 –** Some rebar and cement fragments had to be cut from pipe to allow for cleaning the soil out of the pipe. Hole is 8-12 inches wide and about 2-3 feet long. Note that the pipe appears to be dry in this shot and the previous picture.

## Daily Report

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<b>Project #:</b>	AECOM: 60445033	<b>Report No:</b>	19
<b>Contractor:</b>	Ludlow Construction	<b>Page:</b>	15 of 16



Figure 12 – Broken drainage pipe. During the cleaning out of the pipe water started to appear. Unclear as to why it didn't appear to be wet initially after the collapse.

## Daily Report

**Project:** Durham Meadows Pipeline Installation  
**Location:** Talcott Ridge Drive, Middletown CT  
**Project #:** AECOM: 60445033  
**Contractor:** Ludlow Construction

**Date:** October 23, 2019  
**Day of Week:** Wednesday  
**Report No:** 19  
**Page:** 16 of 16



**Figure 13 – Looking west, downhill along Talcott Ridge, ruts in grass along edge of road. Ruts due to dump trucks having to maneuver around the excavator on the tight corner.**