

<b>QUALITY ASSURANCE REPORT (QAR)</b> <b>DAILY LOG OF CONSTRUCTION</b>					REPORT NUMBER 531		Page 1 of 1	
					DATE 01 Jun 2020 - Monday			
PROJECT Durham Meadows Waterline Remedial Design					CONTRACT NUMBER W912WJ19C0002			
CONTRACTOR Ludlow Construction Co., Inc.					WEATHER Weather Caused No Delay Temperature Min 44 °F Max 68 °F No Precipitation 14 MPH Wind			
PORTION OF SCHEDULED DAY SUITABLE FOR OPERATIONS					TEMPERATURE		WIND	
STRUCTURAL EXCA- VATION  0 %	BORROW EXCA- VATION  0 %	EMBANKMENT  0 %	CONCRETE  0 %	STRUCTURE  0 %	MINIMUM  44 °F	MAXIMUM  68 °F	14 MPH	
HAS ANYTHING DEVELOPED ON THE WORK WHICH MIGHT LEAD TO A CHANGE ORDER OR FINDING FO FACT? <div style="float: right;"> <input checked="" type="checkbox"/> NO  <input type="checkbox"/> YES (Explain)         </div>					24 HOUR PRECIPITATION			
					INCHES  0.00		ENDING  M	
NUMBER OF GOVERNMENT EMPLOYEES					RIVER STAGE			
SUPERVISORY  0	OFFICE  0	LAYOUT  0	INSPECTION  2	TOTAL  2	LABOR  0	FEET  0.0		TIME  M
NUMBER OF CONTRACTOR'S EMPLOYEES				NUMBER OF SHIFTS				
				<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3				
SUPERVISORY  0	SKILLED  0	LABORERS  0	TOTAL  0	FROM  0700	TO  1530 M	FROM  M	TO  M	FROM  M
				TO  M	FROM  M	TO  M	FROM  M	TO  M
Attach a list of the following. (a) Major items of equipment either idle or working, and (b) Number and classification of contractor personnel onsite. NOTE: if the contractor's Quality Control Report (QCR) contains the information it need not be repeated.								
<b>QA NARRATIVES</b>								
<b>Contractor/Subcontractor &amp; Area of Responsibility for Work:</b>					Unresolved Issue: No		Shift: 1	
Robert Christie Project involves installing water main from a new Middletown Water Tank into Durham and tying into homes & businesses:  Prime Contractor: Ludlow - Installing watermain & associated components. Subcontractor: ACE Consulting - SSHO Rob Peddicord & CQC Jerry Brandon Subcontractor -John Turner Consulting - YES (Nick) Subcontractor - Vellieux - 0 Subcontractor: Flaggers - 2 Middletown Police - 2 State Police -2								
<b>Work Performed Today:</b>					Unresolved Issue: No		Shift: 1	
Robert Christie Water Tank Site and Access Road: (Billy's crew) 2 - Middletown Police directing traffic Installed 3 curb stops at stations 117+63, 118+32 and 118+92. 75.5' of 1" Copper pipe  State/Town Roads: (John's crew) 2 State Police directing traffic Tied in the 16" water line on route 17 in the the new 12" water line on Pickett lane. Installed 12" Restrained water from station 500+03 to 501+00 JTC conducted compaction tests.  Pickett Lane: (Quincy's crew) 1 Certified Flagger Began installing the fire hydrants on Pickett lane. 3 Hydrant assemblies at stations 524+75, 529+92 and 534+30.5  Water testing: (Pete from Ludlow) 1 Certified Flagger Chlorinated the new water line for all of Talcott Ridge and Watch Hill and up to the temporary fire hydrant at the water tank site on the top of the hill. Representatives from Middletown were onsite to oversee the process.  1- Ludlow employee was saw cutting   Pay Items: 1. Police - 2 State Police 2. Police - 2 Middletown Police 3. Flaggers - 2 4. Illuminated Signs - yes 5. 1" Copper pipe - 75.5 Feet 6. 1" Curb stops - 3 7. Sawcut Town Roads - 112 Feet								

- 8. Sawcut State Roads - 106 Feet
- 9. 12" Restrained Pipe - 97 Feet
- 10. Bank Run Gravel- 13.7 CY
- 11. Fire Hydrant Assembly - 3

**Results of QA Inspections and Tests, Deficiencies Observed, Actions Taken:** Unresolved Issue: No Shift: 1

Robert Christie

Observed the installation of the 12" Restrained pipe from state road 17 to across the street to Pickett lane. Fabric was placed in the bottom of the excavation followed by 6" of 3/4" stone. Then the stone was covered with fabric. They then placed 3" of sand, installed the pipe and placed 12" of sand over the pipe followed by 3 - 12" lifts of native material or processed gravel where they encountered unsuitable material and compacted each lift. Placed 2 - 8" lifts of processed gravel and compacted each lift. Finally placed 4" of HMA in two 2" compacted lifts.

No water was encountered in the trench today.

Compaction Tests today - Yes, Observed John Turner Consulting performing the compaction tests. All of the tests were above the required 95%.

Observed the Pickett lane crew installing 3 fire hydrants. Installation of them were done per the specifications.

Drove by the storage during my shift. Observation made both times was no material was spilled on the ground and no damage to asphalt. The catch basin did have sediment control fabric in it and did not appear to be clogged.

Follow up inspection of the three curb stops installed on route 17 in Middletown. There were no issues and the two compaction tests were 95% and 96.5%.

Observed Pete from Ludlow working with the representatives from Middletown on chlorinating the new water line on Talcott Ridge drive and Watch Hill drive. The line will be chlorinated all the way up to the temporary fire hydrant at the top of the hill that was installed for the water tank installation.

**Verbal Instructions Given to Contractor:** Unresolved Issue: No Shift: 1

Robert Christie

Spoke to QC Jerry about the silt fence along the access road needing some attention. He spoke to Billy about taking care of it.

**Miscellaneous Remarks and Visitors to Project:** Unresolved Issue: No Shift: 1

Robert Christie

Jerry - QC

Rob P - SSHO

John Pio - Superintendent

Mike Pio - onsite

USACE - Kurt Mintell

AECOM - Joel was onsite providing extra oversight of the contractor.

Mike Cunningham

JTC Consulting

**Miscellaneous Remarks and Visitors to Project:** Unresolved Issue: No Shift: 1

Robert Christie

Water encountered while excavating:

No water was encountered in the trenches today.

PR Comments, encounters or issues:

None to report.

CT DOT onsite or communication:

No one was onsite today.

**Safety:** Unresolved Issue: No Shift: 1

Robert Christie

Noted portable hand wash station on back of tool truck, cleaning supplies nitrile gloves, face masks.

Workers fill out daily forms indicating they are not demonstrating any symptoms of COVID 19 and turning into SSHO.

Daily Safety Inspections:

1. Noted proper PPE while cutting Steel pipe with cut off saw.
2. Traffic Control: 2 State Police and cones on 17 - while installing the new water line
3. Discussed situational awareness while working around heavy equipment, and while allowing residents to use the shared driveway while under construction
4. Situational awareness not to work in close proximity to each other (COVID PREVENTION)
5. Trench box being used for all excavations while working in trench.

## QA VERIFICATIONS (Verification of QC requirements reported completed by the Contractor)

**The following QC Requirement(s) were verified today:**

Requirement #		Results
CT-00139	Compaction Tests on Rt 17 South	Awaiting Results
CT-00140	Pressure Test: at Talbott and Rt 17; The test was approved.	Awaiting Results
CT-00141	Comp Tests for 17/Talbott/Pickett	Awaiting Results
CT-00142	Comp Test on 17 from STA 197+40 to STA 198+40	Awaiting Results

CT-00143	Rt 17 Compaction Tests from STA 198+65 to STA 199+40/ Pickett Road STA 127+ 70 to STA 528+00	Awaiting Results
CT-00144	Heat Tests were performed by QC: Off Truck 298 Degrees. Out of Paver 282 Degrees. After 1st Roll 270	Awaiting Results
CT-00145	Compaction Tests on 17 South from STA 199+75 to STA 201+25	Awaiting Results
CT-00146	Compaction Testing on Rt 17: STA 201+50 to STA 203+00	Awaiting Results
CT-00147	Com Tests for Rt 17 South starting at STA 115+94.5	Awaiting Results
CT-00148	Rt 17 South Comp Tests:	Awaiting Results