

<b>QUALITY ASSURANCE REPORT (QAR)</b> <b>DAILY LOG OF CONSTRUCTION</b>					REPORT NUMBER 511		Page 1 of 1	
					DATE 12 May 2020 - Tuesday			
PROJECT Durham Meadows Waterline Remedial Design					CONTRACT NUMBER W912WJ19C0002			
CONTRACTOR Ludlow Construction Co., Inc.					WEATHER Weather Caused No Delay Temperature Min 44 °F Max 59 °F 0.02 IN Precipitation 16 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  59 °F	16 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  0.02		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				
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: Connecticut Traffic Control - 0 Subcontractor: John Turner Consulting - YES (Steve) Subcontractor Vellieux - 0 Middletown Police - 0 State Police -2								
<b>Work Performed Today:</b>					Unresolved Issue: No      Shift: 1			
Robert Christie Water Tank Site and Access Road: (Billy's crew) Continued to build the road from the bottom of the access road to the top of the hill. They also began installing the erosion control fabric on the left side slope of the access road. Billy also worked on finalizing the grades for area of the access road around the three driveways. It is going to be raised up in those areas due to electrical lines close to the surface and the pitch coming off of the driveways was a little steep for the homeowners to get in and out with there cars that are low to the ground.  State/Town Roads: (John's crew) 2 State Police directing traffic Continued installing the 16" Non-Restrained water from station 186+85 to 189+28 Installed 5 - 1" Corporations at station 186+97, 187+64.5, 188+26, 188+63 and 189+19 Installed 1 1.5" Corporation at station 187+28 Installed 1 - Hydrant assembly at station 187+44 ( Non-payable yet, Hydrant hasn't been installed) JTC conducted compaction tests. *** From station 187+28 to 187+48 contractor jack hammered out ledge totaling 7.4 CY. ***  Pickett Lane: (Quincy's crew) Continued to install the 12" Restrained water pipe from station 503+00 to 504+16 Installed 1 - 12x4 TEE at station 503+81 Installed 1 - 12x8 TEE at station 503+85 Installed 1 - 4" Gate Valve at station 503+81 Installed 1 - 8" Gate Valve at station 503+85 Installed 1 - 12" Gate Valve at station 503+97.5 Installed 1 - Hydrant assembly at station at station 503+87 ( Non-payable yet, Hydrant hasn't been installed) .								
Pay Items: 1. 8" Restrained Pipe - 0 2. Fire Hydrant Assembly - 2 ( Non-payable yet, Hydrants haven't been installed) 3. Police - 2 State Police 4. Illuminated Signs - yes								

5. Sawcut Town Roads - 232 Feet
6. Sawcut State Roads - 486 Feet
7. 12" Restrained Pipe - 0 Feet
8. 12" Non-Restrained Pipe - 0 Feet
8. 16" Restrained Pipe - 0 Feet
9. 16" Non-Restrained Pipe - 0 Feet
10. Ledge Removal - 0 Cubic Yards
11. Trailer cleaned - Yes
12. 4 Inch Gate Valve - 1
13. 8 Inch Gate Valve - 1
14. 12 Inch Gate Valve - 1
15. Bank Run Gravel- 63.26 CY
16. Manual Drain Assembly - 0
17. 12x4 TEE - 1
18. 12x8 TEE - 1
19. 12x12x4 TEE - 0
20. 12x12x8 TEE - 0
21. 16x16x8 TEE - 0
22. 16x16x16 TEE - 0
23. 16" Butterfly valve - 0
24. 1" Corporation - 5
25. 1.5" Corporation - 1
26. 1" Curb stop - 0
27. 1" Cooper pipe - 0

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

Robert Christie

Observed the installation of the 16" Restrained pipe on state road 17. At approximately 0715 they began excavating. 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 Steve from John Turner Consulting performing the compaction tests. All of the tests were above the required 95%.

Observed the Pickett lane crew installing the 12" water line. Once the hole was excavated they 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 a 2" lift of HMA.

\*\*\* A flagger was positioned at each entrance, with road closure signage \*\*\*

Drove by the storage yard twice 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.

Observed the tank access road crew adding material to the hill leading up to the tank site. The material was brought in by a 10 wheel dump truck, spread and graded with the bulldozer. Finally the roller compacted the gravel. This material to bring up the grade is material that was excavated previously from clearing and installing the new water line. Two employees also started installing the erosion control fabric on the side slopes of the access road.

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

Robert Christie

Kurt and I Verbally instructed SSHO Jerry to erect a Safety Bulletin Board per the specifications. I reminded him that this was suppose to be completed within one calendar day after commencement of work. We have given him to the end of the week to complete.

**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

Steve - JTC Consulting

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

Robert Christie

Water encountered while excavating:

No water was encountered today.

PR Comments, encounters or issues:

None today.

CT DOT onsite or communication:

None 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-00123	Comp for Rt17 South	Awaiting Results
CT-00124	Waterline Pressurization on Rt 17 at we pressure tested from STA 132+32 to 141+25	Awaiting Results
CT-00125	Pressure Testing = STA 141+27 to STA 151+50 ( Test started at 11:44 AM and lasted to 1:44 PM. Tests Good. ) Pressure Testing = From Little Lane to Parsons STA 141+27 to 151+50. ( Test started at 11:44 AM and ended at 1:44 PM. 160 PSI with no drop. ) Pressure Testing was done on Monday at STA 124+71 to 132+32. No loss of pressure	Awaiting Results
CT-00126	Pressure Testing = STA 141+27 to STA 151+50 ( Test started at 11:44 AM and lasted to 1:44 PM. Tests Good. ) Pressure Testing = From Little Lane to Parsons STA 141+27 to 151+50. ( Test started at 11:44 AM and ended at 1:44 PM. 160 PSI with no drop. )	Awaiting Results
CT-00127	Ludlow CONDUCTED A PRESSURE TEST ON THE 16 INCH WATER MAIN FROM PARSONS RD TO WINSOME RD. STA 151+50 TO STA 157+26. TEST BEGAN AT AROUND 11:45 AM AND ENDED AT 1:45 PM WITH NO DROP IN PSI AT 160 PSI. JERRY DOCUMENTED IT AND TOOK PICTURES OF IT.	Awaiting Results
CT-00130	Compaction Tests were performed from STA 180+40 to STA 181+40	Awaiting Results

**QA DEFICIENCY**

(Describe QA Deficiency items issued, verify QA Deficiency items reported corrected by contractor)

**The following QA Deficiency items were issued today:**

QA Deficiency Item	Location	Description	Status
QA-00005	Office	Section 01 50 00 Page 10 paragraph 3.11.1 ( Resident Engineer Office), Contractor is responsible to provide a double wide trailer with an indoor lavatory. USACE on multiple occasions has raised the issue with the contractor that the bathroom has a bad odor coming from it and it appears to be vented improperly. This is a safety issue of possible toxic sewer gasses being released into the trailer.	Not Reported Corrected

QA REPRESENTATIVE'S SIGNATURE

DATE

RE/PROJECT ENGR'S INITIALS

DATE