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| CONTRACTORS QUALITY CONTROL REPORT (QCR) DAILY LOG OF CONSTRUCTION | | REPORT NUMBER 323 | Page 1 of 4 |
| | | DATE 06 Nov 2019 - Wednesday | |
| PROJECT Durham Meadows Waterline Remedial Design | | CONTRACT NUMBER W912WJ19C0002 | |
| CONTRACTOR Ludlow Construction Co., Inc. | WEATHER Weather Caused No Delay Temperature Min 36 °F Max 56 °F 0.01 IN Precipitation 10 MPH Wind | | |

QC NARRATIVES

JOB SAFETY

SAFETY:
DAY SHIFT:
PPE; Personal Protective Equipment worn by all the crew.
Job site clean up after work performed. Looks Good.
Haul route was inspected for debris. Road Clean, Looks Good.
Daily Inspections of the Environmental Protection and silt fences. The Protection is Operational and no problems found.

NIGHT SHIFT: Arrived at 7:00pm. Traffic safety setup by 7:15pm. Production began at 7:30pm.
*SSHO Rob Peddicord:
*Monitored Jonathon Pio's crew production
*Monitored weather; Clear, mild
*Monitored Traffic Safety setup: In compliance with Plan 13 of DOT Form 817. Traffic police used. Traffic Control stations sufficiently illuminated
*Performed daily checklist inspections on Daily Report; Crew wearing all required PPE, Trench boxes, ladders being used, Work zones illuminated, Crew alert of surroundings. Safety in compliance with EM 385-1-1
*Inspected haul road and Borrow/Dump Pit; silt fence needs attention

WORK PERFORMED TODAY

JERRY BRANDON QC/SSHO. Onsite 6:00 AM ; Offsite 3:00 PM
PERSONEL;
Superintendent 1
Operators 2
Labors 4
Truck Drivers 2
SUBCONTRACTORS ON SITE:
Police Officer 1 = 8 Hours
WORK COMPLETED;
16" DI Pipe= N/A
16"DI Restrained Pipe= Start at Station 35+63.95 Stop Station at 34+04.62 = 159.33 Feet Pipe.
8" DI Restrained Pipe = N/A
Road Gravel=26.37 CY.
Saw Cut=318.66 Feet.
Compaction Tests:
Review methods in sequences of installation with Ludlow Superintendent:
Compaction Lifts were checked and measured by QC.
Fabric was placed and received 6 inches of stone. Pipe was installed and received 12 inches of Sand on top of pipe.
There were three twelve inch lifts installed and compacted followed by two seven inch lifts of Gravel.
Two 2 inch layers of asphalt was placed for running course.
5 total lifts were done between 11-05-19 (Yesterday) and Today. The Lifts were done per specifications and drawings. I observed each lift and Compaction Tests that were Taken. All Test were Good.
Lift 1=97 M 3.8
Lift 2=96.1 M 3.9
Lift 3=100 M 3.4
Lift 4=Station 35+52=100.5 M 1.9
Lift 5=Station 35+20=100.5 M 1.9
Heat Test Performed=325 Degrees of the Truck.
Fire Hydrant: N/A
EQUIPMENT: 3-Pickups; T-84, T-77, T-87
4-Dumps; T-9, T-36, T-64, Vynalek JRV Unmarked.
3-Excavators; E-19 Track Hoe, E-9 336 Cat Track Hoe, Volvo EW170 Rubber Tire Track Hoe.
2-Front End Loader, Cat 950K L-5 (@ Pit) , L-20 Komat'su 380 L-20
1-R-3 Sweeper,
1-R-8 Dynapac Roller.

COMPONENTS INSTALLED; N/A
UTILITIES ENCOUNTERED: none
QA/QC:
Sediment Control on Talbott Road is in good shape. Silt Fence's all were in good condition and performing Adequately.
Haul Road was checked for Debris. None Found.

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| <p> NIGHT SHIFT: Arrived 7:00pm, Departed 5:00am *Crew Foreman Jonathon Pio; SSHO/QC Rob Peddicord *CREW: 1-Foreman, 1-Op, 3-Truck drivers, 1-Op/Labor, 4-Labor *EQUIPMENT: 4-Pickups; T-14, T-50, T-78, T-42 5-Dumps; T-7, T-36, T-64, T-85, Vynalek 07 4-Excavators; Cat 336 E-4, Volvo E170, Volvo E-20, Cat 325 2-Loaders: Cat 950M, Cat 950K L-5 (@ Pit) 1-Bobcat S-5, 1-Broom B-5, 1-Roller RD27 R-15 *SUPPORT/SUBS: 1-JTC tech, 2-Police Officers *PRODUCTION: Installed 16" pipe from Sta 143+17 to 145+38 = 221ft Total *16" Restrained: Sta 143+17 to 143+37 = 20ft. 16" Straight: 143+37 to 145+38 = 201ft * WS at Stas 143+22, 143+33, 144+49, 144+61 *Four 1" Corps *UTILITIES ENCOUNTERED: N/A *QA/QC: *JTC tech Steve Sturges performed and recorded NDTs as required, Tech also monitored lift thicknesses, elevations, and rock content in soil backfill. Ludlow laborer also monitored lifts and rock content in soil. (Ludlow returned to using native soil as middle backfill) *Ludlow Foreman Jonathon Pio checked pipe elevations and station locations *QC Mgr Rob Peddicord checked asphalt temperatures off the truck and during compaction </p> <p> PROJECT LAISON COORDINATOR: Job Narrative: Onsite at Durham Field Office at 7:00 am. Onsite at Talcott Ridge Drive with the water main installation. Went with Kurt M. to check out Main Street Durham where the work was completed last night. Met with Dale, DOT to mark out where he would like the shim coating done on Route 17 in Middletown and Durham. Onsite on Talcott ridge Drive, Middletown. Crew skim coated the crossing trench on south Main Street at Talcott Ridge Drive. Offsite at 3:30 pm. </p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>PREP/INITIAL DATES (Preparatory and initial dates held and advance notice)</p> <p>Preparatory Inspections held today _____</p> <p>No preparatory inspections held today</p> <p>Initial Inspections held today _____</p> <p>No initial inspections held today</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>ACTIVITY START/FINISH</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left; width: 15%;">Activity No</th> <th style="text-align: left; width: 85%;">Description</th> </tr> <tr> <td colspan="2" style="height: 40px;"> </td> </tr> </table> <p>No activities were started or finished today</p> | | | | Activity No | Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity No | Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>QC REQUIREMENTS</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 15%;">Requirement No</th> <th style="text-align: left; width: 10%;">Type</th> <th style="text-align: left; width: 55%;">Description</th> <th style="text-align: left; width: 20%;">Results</th> </tr> </thead> <tbody> <tr> <td>CT-00033</td> <td>QC Test</td> <td>Rt 17 going South toward Durham. Compaction Tests were performed as layers of fill were placed</td> <td>Awaiting Results</td> </tr> <tr> <td>CT-00036</td> <td>QC Test</td> <td>Rt 17 going toward Durham. Compaction Tests were performed as layers of fill were placed</td> <td>Awaiting Results</td> </tr> <tr> <td>CT-00055</td> <td>QC Test</td> <td>1st layer 285-260% out of truck. 2nd layer 275-250% out of truck</td> <td>Awaiting Results</td> </tr> <tr> <td>CT-00068</td> <td>QC Test</td> <td>Compaction Good Today</td> <td>Awaiting Results</td> </tr> <tr> <td>CT-00069</td> <td>QC Test</td> <td>Heat test off Truck 325% Rolled 265% Tests Good</td> <td>Awaiting Results</td> </tr> <tr> <td>CT-00070</td> <td>QC Test</td> <td>Rt 17 South, Beginning approx 145ft S of Little lane. Compaction Tests were performed as layers of fill were placed. No failing tests.</td> <td>Awaiting Results</td> </tr> <tr> <td>CT-00071</td> <td>QC Test</td> <td>1st Truckload at 270-300% out of truck. 2nd Truckload at 260-290% out of truck</td> <td>Awaiting Results</td> </tr> </tbody> </table> | | | | Requirement No | Type | Description | Results | CT-00033 | QC Test | Rt 17 going South toward Durham. Compaction Tests were performed as layers of fill were placed | Awaiting Results | CT-00036 | QC Test | Rt 17 going toward Durham. Compaction Tests were performed as layers of fill were placed | Awaiting Results | CT-00055 | QC Test | 1st layer 285-260% out of truck. 2nd layer 275-250% out of truck | Awaiting Results | CT-00068 | QC Test | Compaction Good Today | Awaiting Results | CT-00069 | QC Test | Heat test off Truck 325% Rolled 265% Tests Good | Awaiting Results | CT-00070 | QC Test | Rt 17 South, Beginning approx 145ft S of Little lane. Compaction Tests were performed as layers of fill were placed. No failing tests. | Awaiting Results | CT-00071 | QC Test | 1st Truckload at 270-300% out of truck. 2nd Truckload at 260-290% out of truck | Awaiting Results |
| Requirement No | Type | Description | Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CT-00055 | QC Test | 1st layer 285-260% out of truck. 2nd layer 275-250% out of truck | Awaiting Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CT-00068 | QC Test | Compaction Good Today | Awaiting Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CT-00071 | QC Test | 1st Truckload at 270-300% out of truck. 2nd Truckload at 260-290% out of truck | Awaiting Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>ISSUED QA/QC DEFICIENCY (Describe QA and QC Deficiency items issued)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left; width: 15%;">Item No</th> <th style="text-align: left; width: 30%;">Location</th> <th style="text-align: left; width: 55%;">Description</th> </tr> <tr> <td colspan="3" style="height: 40px;"> </td> </tr> </table> <p>No QC Deficiency items were issued today</p> | | | | Item No | Location | Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| PROJECT Durham Meadows Waterline Remedial Design | | CONTRACT NUMBER W912WJ19C0002 | |
| CORRECTED QA/QC DEFICIENCY (Report QC and QA Deficiency items corrected) | | | |
| Item No | Location | Description | |
| No QC Deficiency items were corrected today | | | |
| CONTRACTORS ON SITE (Report first and/or last day contractors were on site) | | | |
| Name | First Day | Last Day | |
| No Contractors had their first or last day on the site | | | |
| LABOR HOURS | | | |
| Employer | Labor Classification | Number of Employees | Hours Worked |
| AR Electric | ELECTRICIAN | 0.0 | 0.0 |
| Ludlow Construction Co., Inc. | TRUCK DRIVER, GROUP 1 | 5.0 | 46.0 |
| Ludlow Construction Co., Inc. | LABORERS | 8.0 | 72.0 |
| Ludlow Construction Co., Inc. | SUPER - CONSTRUCTION | 2.0 | 18.0 |
| Ludlow Construction Co., Inc. | PROGRESS CLERK | 1.0 | 8.0 |
| Ludlow Construction Co., Inc. | HEAVY-EQUIPMENT OPERATOR | 4.0 | 36.0 |
| Ludlow Construction Co., Inc. | CIRCULAR SAW OPERATOR | 0.0 | 0.0 |
| Ludlow Construction Co., Inc. | PROJECT MANAGER | 0.0 | 0.0 |
| Ludlow Construction Co., Inc. | QC SYST MGR/SSHO | 2.0 | 18.0 |
| Ludlow Construction Co., Inc. | QUALITY CONTROL SYSTEM MGR | 0.0 | 0.0 |
| Total hrs worked to date: | 5,300.0 | Hrs worked MTD: 787.5 | Total: 22.0 198.0 |
| EQUIPMENT HOURS | | | |
| Serial Number | Description | Idle Hours | Operating Hours |
| WH5449, L-20 | Kumatsu Front End Loader | 0.0 | 8.0 |
| 03101 | Volvo EW170 Rubber Tire Track Hoe, TE-6 | 0.0 | 9.0 |
| 531660128 | Bobcat Skidsteer S-5 | 0.0 | 5.0 |
| 0336FCRAB | Cat 336 Track Hoe E-4 | 0.0 | 7.0 |
| T-36 | Dump Truck T-36 | 0.0 | 18.0 |
| T-85 | Dump Truck T-85 | 0.0 | 10.0 |
| B-5 | Sweeper B-5 | 0.0 | 5.0 |
| R.8 | Roller, Dynapac R.8 | 0.0 | 2.0 |
| 007 | Dump Truck, Vynalek 007 | 0.0 | 18.0 |
| R-15 | Roller R-15 | 0.0 | 5.0 |
| ECR145DL, E-20 | Volvo Excavator E-20 | 0.0 | 6.0 |
| L-5 | Cat 950K L-5 | 0.0 | 13.0 |
| E-19 | Cat 314C Trackhoe E-19 | 0.0 | 8.0 |
| T-78 | Ludlow Rack Truck T-78 | 0.0 | 10.0 |
| T-50 | Ludlow Pickup Truck T-50 | 0.0 | 10.0 |
| T-14 | Ludlow Pickup Truck T-14 | 0.0 | 10.0 |
| 325 Excavator | Cat 325 Trackhoe, E-8 | 0.0 | 5.0 |
| Vynalek | Dump Truck, Unmarked (Tan bed) | 0.0 | 8.0 |
| T 9 | Dump Truck T-9 | 0.0 | 0.0 |
| T-77 | Dump Truck T-77 | 0.0 | 0.0 |
| T-27 | Dump Truck T-27 | 0.0 | 0.0 |

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| E-9 | 336 Track Hoe | | | | 0.0 | 8.0 | |
| Cat 950M | Cat 950M Fork Loader | | | | 0.0 | 5.0 | |
| Cat 430E Backhoe | Cat 430E Backhoe | | | | 0.0 | 0.0 | |
| T-60 | Dump Truck T-60 | | | | 0.0 | 0.0 | |
| T-64 | Dump Truck T-64 | | | | 0.0 | 18.0 | |
| T-42 | Ludlow Pickup T-42 | | | | 0.0 | 10.0 | |
| Dump Truck T-7 | Dump Truck T-7 | | | | 0.0 | 10.0 | |
| Sweeper B-3 | Sweeper B-3 | | | | 0.0 | 4.0 | |
| T-77 Work Truck | Pick Up Truck | | | | 0.0 | 8.0 | |
| T-86 Work Truck | Pick Up Truck | | | | 0.0 | 8.0 | |
| Total operating hrs to date: | 4,587.5 | Idle hrs MTD: | 0.0 | Opr hrs MTD: | 831.0 | Total: | 0.0 228.0 |
| MISHAP REPORTING | | | | (Describe mishaps) | | | |
| No mishaps reported today | | | | | | | |
| | | | | | | | |
| CONTRACTOR CERTIFICATION | | | | On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above. | | | |
| QC REPRESENTATIVE'S SIGNATURE | | | DATE | | SUPERINTENDENT'S INITIALS | | DATE |