

CONTRACTORS QUALITY CONTROL REPORT (QCR) DAILY LOG OF CONSTRUCTION		REPORT NUMBER 266	Page 1 of 3
		DATE 10 Sep 2019 - Tuesday	
PROJECT Durham Meadows Waterline Remedial Design		CONTRACT NUMBER W912WJ19C0002	
CONTRACTOR Ludlow Construction Co., Inc.	WEATHER Weather Caused No Delay Temperature Min 61 °F Max 75 °F No Precipitation 5 MPH Wind		
QC NARRATIVES			
ADDITIONAL COMMENTS			Unresolved Issue: No
<p>A material inspection of the laydown yard on commerce street was made with the Safety Officer accompanying the QC and QA. This took place at 2:00 am on 9-11-19. Inspection good. The Government has requested more frequent inspection checks of the material laydown yard. Visitors on the site were Dale Ethier with DOT, and EPA camera man.</p> <p>Compaction Tests were between 95.1 & 98.4. Tests passed.</p> <p>A heat test was done on the Asphalt. Off truck 298 degrees. After Roller 224 degrees. Passed</p>			
JOB SAFETY			Unresolved Issue: No
<p>SSHO: *Site Orientation, Emergency Contacts for Herb Given (LC), Steve Sturges (JTC), Felix Grimburg (ACOM) *Continued inspections of vehicle safety equipment: Volvo E-20 Excavator, Cat 950H Loader, L-3 *Drove jobsite to LC dump site and to Fairgrounds with LC QC Mgr Jerry Brandon and ACORE QC Kurt Mintell. Silt fencing to be inspected during dayshift on Friday, 9/12/19. *Monitored field activities *Revised LC Site Orientation *Gravel Spill; see deficiencies</p>			
SAFETY INSPECTION (Report violations, corrective instruction/action taken):			Unresolved Issue: No
<p>Gravel Spill: *One of the dumptrucks spilled gravel on the roadway, coming back from the dump/borrow area. The spill was cleaned up asap by Ludlow. The incident was investigated and a faulty latch was found on the truck tailgate. The latch was replaced before the next day's shift. The driver was also instructed to visually check each load before departing. The entire crew was also made aware of the incident to heighten awareness of all the other trucks as well.</p>			
WORK PERFORMED TODAY			Unresolved Issue: No
<p>MJC onsite at 6:45 am. Day Shift. Veilleux Concrete Cutting, LLC onsite at 7:45 am. Traffic Pattern set up at 8:30 am and the saw cutting began at 8:30 am. Middletown Police onsite at 8:00 am. Officer Scrivio worked 8:00 – 3:00 pm. with Cruiser.</p> <ul style="list-style-type: none"> • Saw Cut Measurement: • 488 LFT at 8" Depth • 488 LFT. at 16" Depth • 8 LFT. At 8" Depth (Hydrant) <p>MJC worked with the saw cutting crew all day. Delivered notification letters up to # 2200 South Main Street, in the afternoon. Saw Cutting completed at 2:30 pm. MJC and Gene from Ludlow tore down the traffic pattern. Crew offsite at 3:00 pm.</p> <p>Night Shift. Ludlow on site at 7:00 pm. Police on site at 7:00 pm. Traffic Pattern set up at 7:30 pm. Ludlow began digging at 7:45 pm Six water line sections were installed. 220 feet of pipe was installed and buried.</p> <ul style="list-style-type: none"> • Fabric placed. • Stone placed into fabric. 8 Inches • a 16 inch D water line placed. • 1 Feet of sand placed. • Screened acceptable material compacted in 16 inch lifts. • 16 inches of compacted aggregate material placed in two equal lifts. • 2 inches of Bituminous course. • 2 inches of Bituminous surface course. 			
PREP/INITIAL DATES		(Preparatory and initial dates held and advance notice)	
Preparatory Inspections held today			
No preparatory inspections held today			

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Initial Inspections held today Earth Excavation, Backfill, Fi				
ACTIVITY START/FINISH				
Activity No Description				
No activities were started or finished today				
QC REQUIREMENTS				
Requirement No	Type	Description	Results	
CT-00001	QC Test	Rt 17 at Talcott Ridge intersection, Compaction Tests were performed as layers of fill were placed	Awaiting Results	
CT-00002	QC Test	Heat Test of Temp Asphalt. Test Good. 224% off Truck. 10 min test after application holding at 224%. Good	Awaiting Results	
CT-00003	QC Test	Rt 17 at Talcott Ridge intersection, Compaction Tests were performed as layers of fill were placed	Awaiting Results	
CT-00004	QC Test	Heat tests were done on the asphalt off the truck. 289% 1st layer after compaction 223% 2nd layer 224% All tests were good	Awaiting Results	
CT-00005	QC Test	The material storage and dump laydown yard on commerce street.	Awaiting Results	
ISSUED QA/QC DEFICIENCY (Describe QC Deficiency items issued)				
Item No Location Description				
No QC Deficiency items were issued today				
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.	LABORERS		6.0	10.0
Ludlow Construction Co., Inc.	SUPER - JOB		1.0	8.0
Ludlow Construction Co., Inc.	SUPER - CONSTRUCTION		1.0	10.0
Ludlow Construction Co., Inc.	LABOR-CREW SUPERVISOR		1.0	10.0
Ludlow Construction Co., Inc.	FENCE ERECTOR		0.0	0.0
Ludlow Construction Co., Inc.	FENCE ERECTOR SUPERVISOR		0.0	0.0
Ludlow Construction Co., Inc.	PROJECT MANAGER		1.0	10.0
Ludlow Construction Co., Inc.	QC SYST MGR/SSHO		1.0	10.0
Ludlow Construction Co., Inc.	QUALITY CONTROL SYSTEM MGR		1.0	10.0
Total hrs worked to date: 396.0		Hrs worked MTD: 396.0		Total: 12.0 68.0
EQUIPMENT HOURS				
Serial Number	Description		Idle Hours	Operating Hours
WH5449	Front End Loader		0.0	10.0

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03101	Rubber Tire Track Hoe	0.0	0.0
7BJ53755	Backhoe	0.0	5.0
531660128	Skidsteer	0.0	2.0
0336FCRAB	Track Hoe	0.0	10.0
T-36	Dump Truck	0.0	10.0
T-85	Dump Truck	0.0	10.0
05	Sweeper	0.0	12.0
T-6	Rollar	0.0	3.0
T-25	Dump Truck	0.0	10.0
T-87	Dump Truck	0.0	10.0
007	Dump Truck	0.0	10.0
Total operating hrs to date: 269.0		Idle hrs MTD: 0.0	Opr hrs MTD: 269.0
		Total:	0.0 92.0

ACCIDENT REPORTING (Describe accidents)
No accidents 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
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(413) 583-2522 Phone

(413) 583-2039 Fax

19 Carmelina's Circle

Ludlow, MA 01056

SUB-CONTRACTOR / EMPLOYEE SITE SAFETY ORIENTATION

We will follow the requirements set forth by OSHA, ACORE, EM 385-1-1, and Ludlow Construction's Safety Plan. Any questions will be answered out of these manuals.

Any Subcontractor/Employee found not following the rules of Ludlow Construction's Safety Program or exhibiting a poor attitude toward the safety program will be subject to the following disciplinary actions:

- a. 1st violation receives a verbal warning and a record will be placed in the safety file. Safety violations that are considered imminent danger or serious in nature will be sent home without warning.
 - b. 2nd violation the subcontractor/employee receives a written safety infraction and is sent home for the remainder of the day and the following 3 days. A record will be placed in safety file.
 - c. 3rd violation may result in termination of employee/contractor.
1. **No alcohol or drugs** will be tolerated at any time on the job. Everyone working on this site must have a completed Drug/Alcohol Screen with acceptable results or a letter of compliance must be sent to Ludlow Construction's Main Office. Notification will be made to the field office prior to starting work. Employees must retest if laid off more than 30 days.
 2. **Always wear Required P.P.E,** when doing hazardous work.
 1. Hard hats.
 2. Safety glasses/goggles/visors are required dependent upon the task.
 3. Secondary protection for cutting metal, chipping, grinding or anything that develops projectiles, (face shields and safety glasses).
 4. High Viz Vests/shirts/jackets w/reflectivity
 5. Safety toe footwear is required.
 3. **No Use of iPods, cell phones, or any other personal electronic devices while performing safety sensitive operations.**
 4. **No Pets** of any kind are allowed in the work zones. Pets allowed on leashes around site trailers
 5. **No "horse play"** on the job.
 6. **Any safety hazards** will be brought to the foreman, superintendent or on-site safety officer's attention immediately to be corrected.
 7. **Report ALL accidents immediately** to your foreman, superintendent, **and** the on-site safety manager **immediately.**
Jonathon Pio (413) 313-2428. SSHO Rob Peddicord (859) 310-2377
- All environmental spills are reportable to SWPPP inspector, QC, or superintendent.
Under no circumstance shall an employee be allowed to leave the site for medical attention for a job-related injury prior to reporting the injury to site management. Ludlow

Construction employees will be escorted for medical treatment by Ludlow Construction management personnel.

Ludlow Construction has a light duty program as needed.

8. **Report All Near Misses to Mgt:** A near miss is an accident that almost happened. It needs to be investigated so the real thing doesn't happen.
9. **In case of serious injury** apply First Aid. Call 911 and notify Ludlow Construction management immediately. SSHO Rob Peddicord (859) 310-2377
10. **A First Aid Station and Eye Wash stations are located in the jobsite trailer and in each piece of heavy equipment.** An AED is also available onsite.
11. **Use proper lifting techniques** when lifting materials or equipment and do not exceed your personal lifting limit. Use mechanical means or get help if needed.
12. **Familiarize yourself with the closest exits or escape routes in your work area.** When you move to a new work area locate your closest exit or best escape route
13. **Never ride on** any piece of equipment including truck beds & trailers which is not designed for that purpose. Violation of this will be cause for immediate termination.

Do not operate any equipment without being properly trained on the use of that piece of equipment. Any credentials that are required by regulation must be in Ludlow Construction's jobsite office prior to starting work. IE; Crane, forklift, CDL, painter's certifications, etc. Anyone who is not certified and approved by management to operate shall not operate equipment at their own discretion.

14. **Safety belts are required** when operating a vehicle or equipment onsite.
15. **Only one person** signaling any equipment operator at one time.
16. **Use only safe** ladders and scaffolding. All ladders need to be inspected daily. Remove immediately if damaged. Scaffolding wheels must be locked.
17. **Make sure the equipment and tools** you use has all of its safety devices functioning properly, i.e. back-up alarms, brakes, lights, windshield wipers, safety guards, GFCI breakers, electrical cords, slings, shackles, cables and hand tools.

It is the employees responsibility to pre-inspect all equipment and tools before use! Report any defects to SSHO immediately for repair or removal from site. The SSHO will also perform regular inspections

18. **Stay clear of all moving equipment** and make eye contact with the operator before crossing the path of moving equipment. Do not assume that an operator sees you! Make sure you get a proper signal before proceeding
19. **Powder actuated tools** are to be used by licensed operators only and should not be left unattended with rounds in the tool.

20. **Fire extinguishers**: A large one is located in the jobsite trailer, and one is inside each piece of heavy equipment. If the fire is small enough to put out safely, proceed to do so. If, however, the fire is already out of control leave the area immediately and get any other personnel out of danger. Immediately dial 911 for the fire department, then notify Ludlow Mgt and SSHO
21. **Flammable Materials Storage**: All materials labeled "Flammable" must be stores separately in a container designed for such.
Cabinet shall have a "FLAMMABLE—KEEP FIRE AWAY" legend.
Fuels must be stored and transported in an approved container, of not more than 5 gallons capacity, having a spring closing lid and spout cover and so designed that it will safely relieve internal pressure when subjected to fire exposure
22. **No Smoking near Flammable Materials, Flammable Materials Storage, Fuels Cells, Fuels Cans, or Office Trailer**
23. **All open flame/hot work** operations must have 1-20# ABC Dry Chemical Fire Extinguishers in the immediate work area. Do NOT use a vehicle/equipment fire extinguisher for hot works.
If Hot Work is to be done, a Hot Work Permit must be acquired from site SSHO
24. **If you have an injury which requires first aid**: If an injury is major; broken bones, deep cuts, deep puncture, severe burns, heart attack, person unconscious call 911 first, then notify SSHO Rob Peddicord (859) 310 2377.
25. **Become familiar with the Job Hazard Analysis/Activity Hazard Analysis**, talk to your supervisor if you have not been sufficiently briefed on the task activities, hazards, and safety precautions. There is no such thing as a stupid question if you don't understand something.
NOTE: Prior to each task beginning, the site foreman and SSHO will brief the crew on the Activity Hazard Analysis (AHA) tasks and safety issues. Upon being briefed, each crew member will sign the AHA, agreeing that they fully comprehend it. At the end of the workday, each crew member will also sign OUT of the AHA, and answer YES/NO if they have been injured or have damaged any equipment. The signing In and OUT will occur everyday.

Hazardous Communication Program:

1. **Become thoroughly familiar with the Safety Data Sheets** (SDS) which define "Hazardous Substances" found on the jobsite to which the employee may be exposed. The SDS describes any adverse health effects they may have, proper handling of the "Hazardous Substances" and precautions that need to be taken. The Safety Data Sheets are in the jobsite trailer.
2. All chemicals/products on site shall be kept on a list. Subcontractors will be kept on separate lists for each company.
3. No product can be brought on site without a SDS.

4. All subcontractors shall provide a SDS for all of their products on site.
5. All containers shall be stored in accordance with manufacturer's specs.
6. All secondary containers must be labeled with contents. (Triangle is best method.)
7. All subcontractors are responsible for training their employees on their company's HAZCOM program. All subcontractors HAZCOM program must be in conjunction with Ludlow Construction's HAZCOM program. Please contact the SSHO or the Corporate Safety Director with any questions.

Weekly Safety Meetings: Weekly at beginning of shift. Everyone onsite is required to attend. Aside from safety topic from the SSHO, employees are encouraged to make comments or express grievances

Safety meetings are mandatory attendance. An employee roster must be attached and kept on file at the jobsite.

Subcontractors may hold their own site safety meeting. You must have a signed employee roster and documentation of items discussed. It must be submitted to Ludlow Construction QC by end of the day.

Daily Toolbox Meetings: Daily meeting at the beginning of the shift conducted by the site foreman and SSHO. Foreman will discuss the day's tasks, including any new AHAs, and the SSHO will address the safety concerns. Employees are encouraged to participate with any input they may feel are relevant.

Emergency Response Plan:

1. In the event of an emergency, all employees shall be notified verbally by site radios or cell phones to gather at the current work area or the Ludlow Construction's field office.
2. All Supervisors must be able to account for all employees and report to Ludlow Construction's onsite Safety Officer, superintendent or QC.

Fall Protection: Over 6 feet high you must use some form of approved fall protection.

1. Scaffolds must have top rail, mid rail and toe board. (Do not use Duplex nails for any rails or handrails on steps.)
2. Limited work off of a ladder. If you can maintain three point contact and work within the sides of the ladder. Must work off ladders facing forward.
3. Articulating man lifts. You must wear a harness and be tied to designated anchorage point at ALL times w/SRL (self retracting lifeline).
4. Scissor Lifts/ Lift Trucks. Completed handrail includes the chain being hooked.
5. Extension ladders must be tied off at the top and bottom. If you can't tie it off get a coworker to hold the base.
6. Do not use step ladders unless spread and locked. Do not step on top 2 rungs and do not straddle your ladder.
7. Ladders should be inspected before every use.
8. Working on rebar above 6 feet requires two hooks and one must be hooked at all times.
9. Use double lanyards (one must be snapped off at all times).

10. A Controlled Access Zone, (CAZ) should be set up for overhead work, brick or block work. Steel erection must have a CAZ. Use yellow caution tapes as a warning only. CAZ should be set up with red danger tape. If you are not working in that area you do not cross the red danger tape. If you erect the barriers you need to take ownership of them for moving/modification or removing them.
11. Subcontractors are responsible for providing their own fall protection equipment (i.e., harnesses, lanyards, carabiners, SRL, etc). All fall protection equipment must meet ANSI Z359.1-2007 standard.

Electrical Hazards/Protection:

1. All power cords with the exception of temp lights, must be ran from GFCI protected outlets or use a portable GFCI protector.
2. All generators must be grounded properly or have internal grounds.
3. Cords must have a daily visual inspection before using. Monthly cord test should be done. Defective cords should be removed and have the ends cut off immediately.
4. Protect cords from traffic.
5. Elevate cords to prevent tripping hazards.
6. All Employees are responsible to perform inspections prior to use.

Excavation:

1. Must have a competent person designation on site. This person must have the authority to stop work until corrections are made. Ludlow Construction does not assume the competent person role for subcontractors. Ludlow Construction will assist you as needed.
2. Daily trench/excavation inspections must be made and documented if the site conditions require it. IE: size, depth and/or operations.
3. Inspect after every storm/weather change.
4. Inspect and note changes as often as necessary. IE excavation is thawing out, rising water table etc.
5. Access egress must be provided at 4ft. and no employee must travel more than 25 feet for egress. Ramps are preferred over ladders for employee and material movement.
6. All excavations 4 feet or deeper must be evaluated for hazards. If an excavation is 5 feet or more protective measures must be taken, i.e., shoring, sloping, benching etc.

Material Handling:

1. Equipment operators must observe a reasonable travel speed in consideration of the traffic, load and terrain.
2. Use only inspected rigging that is appropriate for the load and use.
3. Equipment with outriggers must be set up with outriggers extended and on pads.

4. Rigging must be inspected before each use. This includes all straps, bridles, shackles, chains, and all hooks w/keepers. Do NOT assume the guy before you didn't damage the rigging. Each contractor should maintain their own records.
5. If rigging is damaged, remove it from service and destroy it on site. (DO NOT ALLOW EMPLOYEES TO TAKE IT HOME).
6. Observe power lines when moving material, forklifts or cranes. Do not operate equipment (cranes, forklifts, etc) within 20 feet of power lines up to 350 KV and 50 feet for power lines above 350 KV. Use spotters as a precaution if you are going to be in the vicinity of a power lines. If you will be working close to power lines, notify Ludlow Construction prior to starting work.
7. **CRANES:** Be particularly careful about working in the area of the cranes. Swing radius must be barricaded and moved when the crane moves if you are working in the area with personnel on the ground.
Tag lines should be used on all crane loads. Use appropriate size and length of line as job requires.
8. Never assume that the equipment operator knows you are in the area. Make eye contact with the operator before moving into their space.
9. Wear your seat belt at all times.
10. Do not pull slings from under loads.
11. Free rigging from a forklift is prohibited.

Respiratory Protection:

1. Anyone who needs to wear a respirator must complete a medical questionnaire and have it reviewed by a medical professional prior to being issued a respirator.
2. Employee must be fit tested either qualitatively or quantitatively.
3. Employee must be given training on respirators.
4. Employee must be clean shaven to fit test and must remain that way as long as they are subject to wearing a respirator.
5. Respirators must be issued to one individual unless they are turned in daily, cleaned and inspected between uses.
6. Subcontractors are responsible for fit testing their employees and providing documentation of those authorized to wear respirators.

Hot Work:

1. Any person doing hot work must have 1-20# fire extinguishers within 25 feet of their work and the extinguisher must be moved with them. DO NOT use safety stations as hot work fire extinguishers.
2. All flammable material must be removed from the immediate area prior to starting work or use other control measures.
3. Coordinate your work with other trades/crafts that may be affected prior to starting hot work. All hot work must have a permit filled out prior to starting work. Subcontractors are responsible for their own hot work permit.
4. Hot work permits must comply with the local Fire Department.

Confined Space:

1. You must have confined space training before you go in.
2. There are two types, permit and non-permit. Always remove the hazards and go non-permit if at all possible. Use engineering control first.
3. Seek professional assistance before entry.

Housekeeping:

1. Clean jobs are safer jobs and usually more profitable.
2. Access and egress areas must be kept clean. (stairways and ramps)
3. Control or remove all tripping hazards.
4. Boards must be free impalement hazards (i.e., protruding nails, screws, etc).
5. All rebar and form stakes must have rebar caps to protect employees from impalement.

Storm Water Pollution Prevention Plan (SWPPP):

1. Install and maintain silt fencing around all defined environmentally sensitive areas: Grasslands, streams, ponds, private property, and storm drains.
3. Any material that can possibly leak onto the ground when rain makes contact with it must be covered overnight. Check your work area at the end of every day.
4. Never dump anything in storm drains and swales. There will be protection installed by LC on all storm drains. Do not touch these, if you notice they are damaged or removed, call Ludlow
5. All environmental spills are reportable to SWPPP inspector, QC, or superintendent. Containment is recommended under all heavy equipment when parked. Forklifts, loaders, cranes and the pump truck when on site. If you have a leak, contain it, clean it up and repair leak. Place contaminated soil in POL containers.
6. Spill Kits: 1 yellow barrel at the office trailers. Foremen trucks have extra diapers.
7. There are steep EPA fines for all contractors that violate the laws. **If you are unsure about any SWPPP rules and regulations ask LC personnel.**

All employees on site regardless of employer must comply with all applicable OSHA, ACORE, and Ludlow Construction health, safety, and environmental rules. Whichever rule is more stringent shall apply.

By signing the accompanying checklist, you are attesting that you have read this orientation packet that it has been explained to you and any questions in regards to safety and health in connection with this job have been answered. Failure to comply with Safety, Health or Environmental rules will result in documented reprimands, suspension without pay/ LOSS OF CONTRACT, and/or immediate termination depending on the severity of the infraction.