

CLIENT: Ludlow Construction Co., Inc.

19 Carmelina's Circle Ludlow, MA 01056 Attn: Mr. Mike Pio **PROJECT:** Durham Meadows Waterline

Durham, CT

DATE: May 7, 2020 **REPORT #:** 19-75-012-055 Page 1 of 7

General Location: South Main Street (Route 17), Waterline Trench (Station #180+40 - Station #182+40)

Field Rep: Stephen Devlin

General Contractor: Ludlow Construction Co., Inc. **Earthwork Contractor:** Ludlow Construction Co., Inc.

Air Temp:64°FWeather:ClearSoil ID#:3519-592

Soil Type: Light Gray Gravel w/ Sand & Silt

Proctor Sample Source: Haynes Group

Proctor Value: 141.4 lbs/ft³ Optimum Moisture: 4.6% Gauge Type: Troxler 3430 Required Compaction: 95.0%

TEST DEPTH/ELEV. MOISTURE **DRY DENSITY COMPACTION** NUMBER (in/ft) (%) (pcf) (%) 6"/ 3.5' BFG 2.6% 1 136.6 96.6% LOCATION: Station #180+60 2 6"/ 2' 8"BFG 3.3% 137.7 97.4% Station #180+55 LOCATION: 3 6"/ 2.0' BFG 2.5% 140.9 99.6% LOCATION: Station #180+60 97.9% 4 6"/ 3.5' BFG 2.9% 138.5 LOCATION: Station #180+85 6"/ 2' 8" BFG 2.3% 137.3 97.1% LOCATION: Station #180+75 6"/ 2.0' BFG 3.1% 136.0 96.2% Station #180+70 LOCATION: 6"/ 3.5' BFG 4.0% 134.8 95.3% LOCATION: Station #181+10 6"/ 2' 8" BFG 3.4% 136.9 96.8% **LOCATION:** Station #181+00



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Gauge Type:Troxler 3430Required Compaction:95.0%

TEST	DEPTH/ELEV.	MOISTURE	DRY DENSITY	COMPACTION	
NUMBER	(in/ft)	(%)	(pcf)	(%)	
9	6"/ 2.0' BFG	3.2%	138.9	98.2%	
LOCATION:	Station #181+05				
10	6"/ 3.5' BFG	3.7%	137.6	97.3%	
LOCATION:	Station #181+30				
11	6"/ 2' 8" BFG	3.4%	137.1	97.0%	
LOCATION:	Station #181+35				
12	6"/ 2.0' BFG	3.7%	138.7	98.1%	
LOCATION:	Station #181+40				
13	6"/ 3.5' BFG	3.8%	135.6	95.9%	
LOCATION:	Station #181+60				
14	6"/ 2' 8" BFG	3.7%	136.7	96.7%	
LOCATION:	Station #181+50				
15	6"/ 2.0' BFG	4.2%	138.6	98.0%	
LOCATION:	Station #181+55				
16	6"/ 3.5' BFG	3.7%	136.2	96.3%	
LOCATION:	Station #181+70				



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Proctor Sample Source: Haynes Group

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TEST	DEPTH/ELEV.	MOISTURE	DRY DENSITY	COMPACTION	
NUMBER	(in/ft)	(%)	(pcf)	(%)	
17	6"/ 2' 8" BFG	3.5%	138.0	97.6%	
LOCATION:	Station #181+80				
18	6"/ 2.0' BFG	4.2%	137.0	96.9%	
LOCATION:	Station #181+85				
19	6"/ 3.5' BFG	3.8%	134.3	95.0%	
LOCATION:	Station #181+95				
20	6"/ 2' 8" BFG	3.3%	137.0	96.9%	
LOCATION:	Station #182+00				
21	6"/ 2.0' BFG	4.1%	139.4	98.6%	
LOCATION:	Station #182+10				
22	6"/ 3.5' BFG	3.9%	134.6	95.2%	
LOCATION:	Station #182+20				
23	6"/ 2' 8" BFG	3.5%	136.4	96.5%	
LOCATION:	Station #182+30				
24	6"/ 2.0' BFG	3.5%	135.5	95.8%	
LOCATION:	Station #182+25				



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Field Rep: Stephen Devlin

General Contractor: Ludlow Construction Co., Inc. **Earthwork Contractor:** Ludlow Construction Co., Inc.

Air Temp: 64°F
Weather: Clear
Soil ID#: 3519-608

Soil Type: Light Gray Gravel w/ Silt & Sand (1.5" Gravel)

Proctor Sample Source: Haynes Group

Proctor Value: 138.9 lbs/ft³ Optimum Moisture: 7.8% Gauge Type: Troxler 3430 Required Compaction: 95.0%

TEST	DEPTH/ELEV.	MOISTURE	DRY DENSITY	COMPACTION	
NUMBER	(in/ft)	(%)	(pcf)	(%)	
25	6"/ 18" BFG	2.2%	135.8	97.8%	
LOCATION:	Station #180+60				
26	6"/ 4" BFG	2.9%	136.9	98.6%	
LOCATION:	Station #180+65				
27	6"/ 18" BFG	2.7%	135.2	97.3%	
LOCATION:	Station #180+80				
28	6"/ 4" BFG	2.2%	134.9	97.1%	
LOCATION:	Station #180+75				
29	6"/ 18" BFG	2.0%	136.0	97.9%	
LOCATION:	Station #181+00				
30	6"/ 4" BFG	2.9%	135.6	97.6%	
LOCATION:	Station #180+95				
31	6"/ 18" BFG	2.6%	136.8	98.5%	
LOCATION:	Station #181+25				
32	6"/ 4" BFG	2.3%	133.5	96.1%	
LOCATION:	Station #181+30			-	



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Air Temp: 64°F
Weather: Clear
Soil ID#: 3519-608

Soil Type: Light Gray Gravel w/ Silt & Sand (1.5" Gravel)

Proctor Sample Source: Haynes Group

Proctor Value: 138.9 lbs/ft³ Optimum Moisture: 7.8% Gauge Type: Troxler 3430 Required Compaction: 95.0%

TEST	DEPTH/ELEV.	MOISTURE	DRY DENSITY	COMPACTION
NUMBER	(in/ft)	(%)	(pcf)	(%)
33	6"/ 18" BFG	2.2%	133.9	96.4%
LOCATION:	Station #181+45			
34	6"/ 4" BFG	3.0%	135.7	97.7%
LOCATION:	Station #181+50			
35	6"/ 18" BFG	3.6%	135.0	97.2%
LOCATION:	Station #181+75			
36	6"/ 4" BFG	2.7%	133.2	95.9%
LOCATION:	Station #181+80			
37	6"/ 18" BFG	2.7%	136.8	98.5%
LOCATION:	Station #182+05			
38	6"/ 4" BFG	3.8%	137.5	99.0%
LOCATION:	Station #182+10			
39	6"/ 18" BFG	2.0%	134.7	97.0%
LOCATION:	Station #182+35			
40	6"/ 4" BFG	3.1%	135.1	97.3%
LOCATION:	Station #182+30			



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General Location: Talcott Ridge Road, New Road Construction, Tank Site Work

Field Rep: Stephen Devlin

General Contractor: Ludlow Construction Co., Inc. **Earthwork Contractor:** Ludlow Construction Co., Inc.

Air Temp: 65°F
Weather: Clear
Soil ID#: 3519-600

Soil Type: Reddish Brown Silty Sand w/ Gravel

Proctor Sample Source: On-Site

Proctor Value: 136.3 lbs/ft³ Optimum Moisture: 6.6% Gauge Type: Troxler 3430 Required Compaction: 95.0%

TEST	DEPTH/ELEV.	MOISTURE	DRY DENSITY	COMPACTION	
NUMBER	(in/ft)	(%)	(pcf)	(%)	
41	6"/ 1.0' BFG	6.6%	134.0	98.3%	
LOCATION:	Station #1300+00				
42	6"/ 1.0'BFG	6.2%	135.1	99.1%	
LOCATION:	Station #1245+00				
43	6"/ 2.5' BFG	6.4%	132.1	96.9%	
LOCATION:	Station #1160+00				
LOCATION:					
LOCATION:					
LOCATION:					
LOCATION:					
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Soil Type: Light Gray Gravel w/ Silt & Sand (1.5" Gravel)

Proctor Sample Source: Haynes Group

Proctor Value: 138.9 lbs/ft³ Optimum Moisture: 7.8% Gauge Type: Troxler 3430 Required Compaction: 95.0%

TEST	DEPTH/ELEV.	MOISTURE	DRY DENSITY	COMPACTION	
NUMBER	(in/ft)	(%)	(pcf)	(%)	
44	6"/ Finish Grade	2.5%	136.2	98.1%	
LOCATION:	Station #1370+00				
45	6"/ Finish Grade	3.0%	135.7	97.7%	
LOCATION:	Station #1400+00				
46	6"/ Finish Grade	3.1%	135.5	97.6%	
LOCATION:	Station #1300+00				
LOCATION:					
LOCATION:					
LOCATION:					
LOCATION:					
LOCATION:					

REMARKS: