



REPORT OF SOILS FIELD COMPACTION TESTING

CLIENT: Ludlow Construction Co., Inc.
 19 Carmelina's Circle
 Ludlow, MA 01056
 Attn: Mr. Mike Pio

PROJECT: Durham Meadows Waterline
 Durham, CT

DATE: May 5, 2020

REPORT #: 19-75-012-053 Page 3 of 7

General Location: South Main Street (Route 17), Waterline Trench (Station #175+90 - Station #177+90)
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 56°F
Weather: Clear
Soil 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 NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	6" / 2' 8" BFG	3.4%	136.4	96.5%
LOCATION:	Station #177+20			
18	6" / 2.0' BFG	3.6%	137.3	97.1%
LOCATION:	Station #177+30			
19	6" / 3.5' BFG	3.8%	134.7	95.3%
LOCATION:	Station #177+55			
20	6" / 2' 8" BFG	3.5%	138.2	97.7%
LOCATION:	Station #177+50			
21	6" / 2.0' BFG	2.8%	141.3	99.9%
LOCATION:	Station #177+65			
22	6" / 3.5' BFG	3.3%	134.9	95.4%
LOCATION:	Station #177+70			
23	6" / 2' 8" BFG	4.2%	139.0	98.3%
LOCATION:	Station #177+90			
24	6" / 2.0' BFG	3.0%	136.8	96.7%
LOCATION:	Station #177+80			

REMARKS: BFG - Below Finish Grade (Base Course for Asphalt)



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Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 56°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 NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
25	6"/ 18" BFG	2.0%	137.0	98.6%
LOCATION: Station #176+00				
26	6"/ 4" BFG	3.3%	138.6	99.8%
LOCATION: Station #176+15				
27	6"/ 18" BFG	2.8%	135.9	97.8%
LOCATION: Station #176+30				
28	6"/ 4" BFG	3.4%	136.3	98.1%
LOCATION: Station #176+35				
29	6"/ 18" BFG	2.2%	137.5	99.0%
LOCATION: Station #176+60				
30	6"/ 4" BFG	2.7%	137.2	98.8%
LOCATION: Station #176+45				
31	6"/ 18" BFG	3.0%	136.8	98.5%
LOCATION: Station #176+75				
32	6"/ 4" BFG	3.6%	138.7	99.9%
LOCATION: Station #176+80				

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Air Temp: 56°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 NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
33	6"/ 18" BFG	3.1%	136.4	98.2%
LOCATION:	Station #177+10			
34	6"/ 4" BFG	3.7%	137.7	99.1%
LOCATION:	Station #177+00			
35	6"/ 18" BFG	3.1%	132.3	95.2%
LOCATION:	Station #177+35			
36	6"/ 4" BFG	2.9%	138.3	99.6%
LOCATION:	Station #177+25			
37	6"/ 18" BFG	3.3%	137.1	98.7%
LOCATION:	Station #177+60			
38	6"/ 4" BFG	3.7%	137.8	99.2%
LOCATION:	Station #177+45			
39	6"/ 18" BFG	2.5%	134.5	96.8%
LOCATION:	Station #177+70			
40	6"/ 4" BFG	3.2%	134.6	96.9%
LOCATION:	Station #177+85			

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General Location: Talcott Ridge Drive
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 62°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 NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
41	6"/ 1.0' BFG	4.4%	132.1	96.9%
LOCATION:	Station #1200+55			
42	6"/ 1.0' BFG	7.0%	131.5	96.5%
LOCATION:	Station #1000+45			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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Soil 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 NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
43	6"/ 1.0' BFG	3.0%	136.7	96.7%
LOCATION:	Station #1200+01, Center			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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