



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 6, 2020

REPORT #: 19-75-012-054 Page 1 of 8

General Location: South Main Street (Route 17), Waterline Trench (Station #177+90 - Station #180+40)
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 66°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 (%)
1	6"/ 3.5' BFG	7.0%	131.4	96.4%
LOCATION:	Station #178+00			
2	6"/ 2' 8" BFG	6.2%	135.0	99.0%
LOCATION:	Station #178+10			
3	6"/ 3.5' BFG	9.6%	129.5	95.0%
LOCATION:	Station #178+40			
4	6"/ 2' 8" BFG	7.7%	130.3	95.6%
LOCATION:	Station #178+35			
5	6"/ 3.5' BFG	5.9%	132.1	96.9%
LOCATION:	Station #178+55			
6	6"/ 2' 8" BFG	8.0%	129.9	95.3%
LOCATION:	Station #178+45			
7	6"/ 3.5' BFG	6.4%	130.1	95.5%
LOCATION:	Station #178+85			
8	6"/ 2' 8" BFG	7.0%	130.8	96.0%
LOCATION:	Station #178+75			

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



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	6"/ 2.0' BFG	10.5%	130.1	95.5%
LOCATION:	Station #178+80			
10	6"/ 3.5' BFG	6.3%	130.4	95.7%
LOCATION:	Station #179+00			
11	6"/ 2' 8" BFG	10.9%	131.0	96.1%
LOCATION:	Station #178+95			
12	6"/ 3.5' BFG	7.2%	129.6	95.1%
LOCATION:	Station #179+25			
13	6"/ 2' 8" BFG	11.5%	129.5	95.0%
LOCATION:	Station #179+40			
14	6"/ 3.5' BFG	6.8%	129.5	95.0%
LOCATION:	Station #179+50			
15	6"/ 3.5' BFG	9.9%	130.6	95.8%
LOCATION:	Station #179+70			
LOCATION:				

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



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General Location: South Main Street (Route 17), Waterline Trench (Station #177+90 - Station #180+40)
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 66°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 (%)
16	6"/ 2.0' BFG	3.8%	135.7	96.0%
LOCATION:	Station #178+15			
17	6"/ 2.0' BFG	3.3%	139.8	98.9%
LOCATION:	Station #178+30			
18	6"/ 2.0' BFG	4.0%	137.4	97.2%
LOCATION:	Station #178+50			
19	6"/ 2.0' BFG	4.4%	135.6	95.9%
LOCATION:	Station #179+10			
20	6"/ 2.0' BFG	3.6%	135.1	95.5%
LOCATION:	Station #179+20			
21	6"/ 2' 8" BFG	3.7%	138.0	97.6%
LOCATION:	Station #179+60			
22	6"/ 2.0' BFG	2.6%	141.5	100.0+
LOCATION:	Station #179+55			
23	6"/ 2' 8" BFG	3.3%	138.7	98.1%
LOCATION:	Station #179+75			

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



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General Location: South Main Street (Route 17), Waterline Trench (Station #177+90 - Station #180+40)
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 66°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 (%)
24	6"/ 2.0' BFG	3.3%	134.5	95.1%
LOCATION:	Station #179+85			
25	6"/ 3.5' BFG	3.8%	136.6	96.6%
LOCATION:	Station #180+10			
26	6"/ 2' 8" BFG	4.0%	138.0	97.6%
LOCATION:	Station #180+00			
27	6"/ 2.0' BFG	3.1%	138.9	98.2%
LOCATION:	Station #179+95			
28	6"/ 3.5' BFG	3.7%	139.5	98.7%
LOCATION:	Station #180+40			
29	6"/ 2' 8" BFG	3.8%	135.7	96.0%
LOCATION:	Station #180+30			
30	6"/ 2.0' BFG	3.6%	138.2	97.7%
LOCATION:	Station #180+35			
LOCATION:				

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General Location: South Main Street (Route 17), Waterline Trench (Station #177+90 - Station #180+40)
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 66°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 (%)
31	6"/ 18" BFG	2.7%	135.4	97.5%
LOCATION:	Station #178+10			
32	6"/ 4" BFG	2.8%	136.6	98.3%
LOCATION:	Station #178+05			
33	6"/ 18" BFG	3.0%	136.5	98.3%
LOCATION:	Station #178+30			
34	6"/ 4" BFG	3.1%	138.3	99.6%
LOCATION:	Station #178+25			
35	6"/ 18" BFG	3.8%	136.4	98.2%
LOCATION:	Station #178+60			
36	6"/ 4" BFG	2.0%	136.0	97.9%
LOCATION:	Station #178+40			
37	6"/ 18" BFG	4.1%	135.9	97.8%
LOCATION:	Station #178+85			
38	6"/ 4" BFG	2.2%	137.5	99.0%
LOCATION:	Station #178+70			

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REPORT #: 19-75-012-054 Page 6 of 8

General Location: South Main Street (Route 17), Waterline Trench (Station #177+90 - Station #180+40)
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 66°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 (%)
39	6"/ 18" BFG	2.2%	136.1	98.0%
LOCATION:	Station #179+00			
40	6"/ 4" BFG	1.6%	134.5	96.8%
LOCATION:	Station #179+15			
41	6"/ 18" BFG	2.6%	135.5	97.6%
LOCATION:	Station #179+15			
42	6"/ 4" BFG	1.7%	137.9	99.3%
LOCATION:	Station #179+35			
43	6"/ 18" BFG	2.0%	137.9	99.3%
LOCATION:	Station #179+60			
44	6"/ 4" BFG	1.6%	135.5	97.6%
LOCATION:	Station #179+50			
45	6"/ 18" BFG	1.8%	134.3	96.7%
LOCATION:	Station #179+80			
46	6"/ 4" BFG	1.6%	132.4	95.3%
LOCATION:	Station #179+75			

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Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 66°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 (%)
47	6"/ 18" BFG	2.6%	136.7	98.4%
LOCATION:	Station #178+00			
48	6"/ 4" BFG	2.5%	137.3	98.8%
LOCATION:	Station #180+05			
49	6"/ 18" BFG	2.4%	135.1	97.3%
LOCATION:	Station #180+25			
50	6"/ 4" BFG	1.9%	138.0	99.4%
LOCATION:	Station #180+30			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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



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REPORT #: 19-75-012-054 Page 8 of 8

General Location: Talcott Ridge Drive, Tank Road
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 66°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 (%)
51	6"/ Finish Grade	2.3%	133.7	96.3%
LOCATION:	Station #1740+00			
52	6"/ Finish Grade	2.2%	135.3	97.4%
LOCATION:	Station #1879+00			
53	6"/ Finish Grade	3.0%	135.8	97.8%
LOCATION:	Station #2159+00			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

REMARKS: