



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 29, 2020

REPORT #: 19-75-012-071 Page 1 of 8

General Location: South Main Street (Route 17), Waterline Trench (Station #205+45 - Station #207+87)
Field Rep: Stephen Sturges
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 72°F
Weather: Overcast
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 (%)
1	10"/ 3.5' BFG	4.1%	135.7	96.0%
LOCATION: Station #205+50				
2	10"/ 2' 8" BFG	3.4%	136.6	96.6%
LOCATION: Station #199+75				
3	10"/ 2.0' BFG	2.4%	139.0	98.3%
LOCATION: Station #199+75				
4	10"/ 3.5' BFG	2.2%	138.7	98.1%
LOCATION: Station #205+75				
5	10"/ 2' 8" BFG	2.0%	138.1	97.7%
LOCATION: Station #200+00				
6	10"/ 2.0' BFG	3.1%	137.5	97.2%
LOCATION: Station #200+00				
7	10"/ 3.5' BFG	1.8%	139.4	98.6%
LOCATION: Station #206+00				
8	10"/ 2' 8" BFG	2.5%	138.4	97.9%
LOCATION: Station #206+00				

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



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9	10"/ 2.0' BFG	2.4%	137.0	96.9%
LOCATION: Station #206+00				
10	10"/ 3.5' BFG	2.0%	136.7	96.7%
LOCATION: Station #206+25				
11	10"/ 2' 8" BFG	2.7%	138.8	98.2%
LOCATION: Station #206+25				
12	10"/ 2.0' BFG	3.0%	137.4	97.2%
LOCATION: Station #206+25				
13	10"/ 3.5' BFG	2.7%	138.1	97.7%
LOCATION: Station #206+50				
14	10"/ 2' 8" BFG	2.6%	136.4	96.5%
LOCATION: Station #206+50				
15	10"/ 2.0' BFG	2.5%	137.1	97.0%
LOCATION: Station #206+50				
16	10"/ 3.5' BFG	3.7%	138.9	98.2%
LOCATION: Station #206+75				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	10"/ 2' 8" BFG	2.2%	137.7	97.4%
LOCATION: Station #206+75				
18	10"/ 2.0' BFG	3.3%	137.2	97.0%
LOCATION: Station #206+75				
19	10"/ 3.5' BFG	3.1%	138.0	97.6%
LOCATION: Station #207+00				
20	10"/ 2' 8" BFG	2.9%	137.0	96.9%
LOCATION: Station #207+00				
21	10"/ 2.0' BFG	3.1%	136.8	96.7%
LOCATION: Station #207+00				
22	10"/ 3.5' BFG	3.8%	138.0	97.6%
LOCATION: Station #207+25				
23	10"/ 2' 8" BFG	2.2%	137.1	97.0%
LOCATION: Station #207+25				
24	10"/ 2.0' BFG	2.3%	137.3	97.1%
LOCATION: Station #207+25				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
25	10"/ 3.5' BFG	1.9%	137.6	97.3%
LOCATION:	Station #207+50			
26	10"/ 2' 8" BFG	2.6%	137.1	97.0%
LOCATION:	Station #207+50			
27	10"/ 2.0' BFG	2.6%	137.9	97.5%
LOCATION:	Station #207+50			
28	10"/ 3.5' BFG	3.0%	136.6	96.6%
LOCATION:	Station #207+75			
29	10"/ 2' 8" BFG	2.4%	137.6	97.3%
LOCATION:	Station #207+75			
30	10"/ 2.0' BFG	3.2%	137.3	97.1%
LOCATION:	Station #207+75			
LOCATION:				
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Field Rep: Stephen Sturges
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 72°F
Weather: Overcast
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	4"/ 18" BFG	2.7%	134.4	96.8%
LOCATION:	Station #205+50			
32	6"/ 4" BFG	3.7%	136.0	97.9%
LOCATION:	Station #205+50			
33	4"/ 18" BFG	4.4%	135.3	97.4%
LOCATION:	Station #205+75			
34	6"/ 4" BFG	3.6%	135.8	97.8%
LOCATION:	Station #205+75			
35	4"/ 18" BFG	4.2%	134.4	96.8%
LOCATION:	Station #206+00			
36	6"/ 4" BFG	5.0%	134.8	97.0%
LOCATION:	Station #206+00			
37	4"/ 18" BFG	4.6%	135.0	97.2%
LOCATION:	Station #206+25			
38	6"/ 4" BFG	3.8%	136.0	97.9%
LOCATION:	Station #206+25			

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Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
39	4"/ 18" BFG	4.4%	134.7	97.0%
LOCATION:	Station #206+50			
40	6"/ 4" BFG	5.0%	135.9	97.8%
LOCATION:	Station #206+50			
41	4"/ 18" BFG	4.8%	134.8	97.0%
LOCATION:	Station #206+75			
42	6"/ 4" BFG	3.8%	133.9	96.4%
LOCATION:	Station #206+75			
43	4"/ 18" BFG	5.1%	134.0	96.5%
LOCATION:	Station #207+00			
44	6"/ 4" BFG	4.4%	135.1	97.3%
LOCATION:	Station #207+00			
45	4"/ 18" BFG	3.1%	133.7	96.3%
LOCATION:	Station #207+25			
46	6"/ 4" BFG	3.9%	135.9	97.8%
LOCATION:	Station #207+25			

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Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
47	4"/ 18" BFG	5.0%	136.3	98.1%
LOCATION:	Station #207+50			
48	6"/ 4" BFG	5.3%	134.4	96.8%
LOCATION:	Station #207+50			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
49	10"/ Subbase	4.0%	137.9	97.5%
LOCATION:	Station #115+95			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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