



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 19, 2020

REPORT #: 19-75-012-064 Page 1 of 5

General Location: South Main Street (Route 17), Waterline Trench (Station #195+40 - Station #196+15)
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 64°F
Weather: Clear
Soil ID#: 3519-592
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	6"/ 3.5' BFG	4.1%	136.7	96.7%
LOCATION: Station #195+45				
2	6"/ 2' 8" BFG	3.4%	134.6	95.2%
LOCATION: Station #195+55				
3	6"/ 2.0' BFG	2.5%	137.2	97.0%
LOCATION: Station #195+50				
4	6"/ 3.5' BFG	2.7%	135.5	95.8%
LOCATION: Station #195+75				
5	6"/ 2' 8" BFG	3.2%	135.9	96.1%
LOCATION: Station #195+70				
6	6"/ 2.0' BFG	1.3%	138.2	97.7%
LOCATION: Station #195+90				
7	6"/ 3.5' BFG	2.4%	138.9	98.2%
LOCATION: Station #196+00				
8	6"/ 2' 8" BFG	2.8%	137.6	97.3%
LOCATION: Station #196+05				

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



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Required Compaction: 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	6"/ 2.0' BFG	1.9%	137.2	97.0%
LOCATION:	Station #196+10			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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General Location: South Main Street (Route 17), Waterline Trench (Station #195+40 - Station #196+15)
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 NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
10	6"/ 18" BFG	1.5%	135.7	97.7%
LOCATION:	Station #195+60			
11	6"/ 4" BFG	1.8%	132.3	95.2%
LOCATION:	Station #195+50			
12	6"/ 18" BFG	2.0%	136.8	98.5%
LOCATION:	Station #195+70			
13	6"/ 4" BFG	2.2%	137.8	99.2%
LOCATION:	Station #195+80			
14	6"/ 18" BFG	2.2%	134.1	96.5%
LOCATION:	Station #196+00			
15	6"/ 4" BFG	1.1%	134.7	97.0%
LOCATION:	Station #196+15			
LOCATION:				
LOCATION:				

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General Location: Picket Lane, Waterline Service Extension
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 64°F
Weather: Clear
Soil ID#: 3520-218
Soil Type: Dark Brown Clayey sand w/ Gravel (On Site Bankroll Clay/Silt)
Proctor Sample Source: On Site Excavation

Proctor Value: 131.3 **lbs/ft³** **Optimum Moisture:** 8.7%
Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
16	6"/ 1.5' BFG	9.6%	126.0	96.0%
LOCATION:	Station #519+00			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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



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Proctor Sample Source: Haynes Group

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

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	6"/ Finish Grade	1.7%	135.3	97.4%
LOCATION:	Station #519+55			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

REMARKS: