

CLIENT:	Ludlow Constr 19 Carmelina's	s Circle	<u>.</u> PR	OJECT:	Durham Meadow Durham, CT	s Waterline
	Ludlow, MA 0	1056				
	Attn: Mr. Mike	e Pio				
DATE:	June 19, 2020		RE	PORT #:	19-75-012-080	Page 1 of 7
General Lo	ocation:	Route 68, Wa	aterline Trench			
Field Rep:		Stephen Stur	ges			
General C	•		truction Co., Inc.			
Earthwork	Contractor:	Ludlow Cons	truction Co., Inc.			
Air Temp:		86°F				
Weather:		Sunny				
Soil ID#:		3519-592				
Soil Type:		Light Grav Gr	ravel w/ Sand & Silt (3.5" (Gravel)		
	mple Source:	Haynes Grou		0.0.0		
	•					
Proctor Va	alue:	141.4	lbs/ft ³	(Optimum Moisture:	4.6%
Gauge Typ	be:	Troxler 3440		F	Required Compaction	1: 95.0%
TEST	DEPT	TH/ELEV.	MOISTURE		DRY DENSITY	COMPACTION
NUMBE		in/ft)	(%)		(pcf)	(%)
1		/ Lift #1	3.3%		137.9	97.5%
LOCATIO						
2		/ Lift #2	4.0%		138.3	97.8%
LOCATIO			2.201		4075	07.00/
3		/ Lift #1	2.2%		137.5	97.2%
LOCATIO			2 50/		126.0	00.0%
4 LOCATIO		/ Lift #2	2.5%		136.9	96.8%
LOCATIC 5		/ Lift #1	2.0%		137.5	97.2%
		•	2.070		137.5	51.270
		Station #607+50			138.3	97.8%
6		/ Lift #2	2.8%			
6	12"	/ Lift #2 07+50	2.8%		130.5	57.670
	12" DN: Station #6	•	2.8%		138.6	98.0%
6 LOCATIC	12" DN: Station #6 10"	07+50 / Lift #1	1			
6 LOCATIC 7	12" DN: Station #6 10" DN: Station #6	07+50 / Lift #1	1			
6 LOCATIO 7 LOCATIO	12" DN: Station #6 DN: Station #6 10"	07+50 / Lift #1 07+75 / Lift #2	3.1%		138.6	98.0%

REMARKS:



CLIENT:	Ludlow Constr 19 Carmelina's Ludlow, MA 0	s Circle	. PRC	DJECT:	Durham Meadow Durham, CT	s Waterline
	Attn: Mr. Mike					
DATE:	June 19, 2020		REF	ORT #:	19-75-012-080	Page 2 of 7
General Lo	ocation:	Route 68, Wa	aterline Trench			
Field Rep:		Stephen Stur	ges			
General Co	General Contractor:		truction Co., Inc.			
Earthwork	Earthwork Contractor:		truction Co., Inc.			
Air Temp:		86°F				
Weather:		Sunny				
Soil ID#:		, 3519-592				
Soil Type:		Light Grav Gr	avel w/ Sand & Silt (3.5" G	ravel)		
••	mple Source:	Haynes Grou		,		
	•					
Proctor Va	alue:	141.4	lbs/ft ³	C	Optimum Moisture:	4.6%
Gauge Typ	be:	Troxler 3440		R	equired Compaction	1: 95.0%
TEST	DEPT	TH/ELEV.	MOISTURE		DRY DENSITY	COMPACTION
NUMBE		in/ft)	(%)		(pcf)	(%)
9		/ Lift #1	2.4%		136.6	96.6%
LOCATIC						
10		/ Lift #2	2.2%		137.1	97.0%
LOCATIC						
11		/ Lift #1	3.0%		137.9	97.5%
LOCATIO			• - •/			
12		/ Lift #2	2.7%		138.4	97.9%
LOCATIC			2.40/		4077	07.40/
13 LOCATIC		/ Lift #1	3.1%		137.7	97.4%
14		/ Lift #2	4.0%		138.4	97.9%
LOCATIC		•	4.0%		130.4	97.9%
15		/ Lift #1	3.7%		137.0	96.9%
LOCATIC		•	5.7 /0		137.0	50.570
16	10"	/ Lift #2	4.1%		136.4	96 5%
16 LOCATIC		/ Lift #2 08+75	4.1%		136.4	96.5%

REMARKS:



CLIENT: Ludlow Const 19 Carmelina Ludlow, MA (PROJECT:	Durham Meadow Durham, CT	s Waterline
	Attn: Mr. Mike					
DATE:	June 19, 2020			REPORT #:	19-75-012-080	Page 3 of 7
General Lo	cation:	Route 68, Wa	aterline Trench			
Field Rep:		Stephen Sturges				
General Co	eneral Contractor:		truction Co., Inc.			
Earthwork	Contractor:	Ludlow Cons	truction Co., Inc.			
Air Temp:		86°F				
Weather:		Sunny				
Soil ID#:		, 3519-592				
Soil Type:		Light Grav Gr	ravel w/ Sand & Silt (3.	5" Gravel)		
	mple Source:	Haynes Grou		,		
	•		•			
Proctor Va	lue:	141.4	lbs/ft ³		Optimum Moisture:	4.6%
Gauge Type	e:	Troxler 3440			Required Compaction	: 95.0%
TEST	DEPT	TH/ELEV.	MOISTURE		DRY DENSITY	COMPACTION
NUMBE		in/ft)	(%)		(pcf)	(%)
17		/ Lift #1	4.2%		137.5	97.2%
LOCATIO						
18		/ Lift #2	3.2%		138.9	98.2%
LOCATIO						
19		/ Lift #1	1.7%		138.8	98.2%
LOCATIO						
20		/ Lift #2	2.5%		137.6	97.3%
LOCATIO			2.00/		420.2	07.00/
21 LOCATIO		/ Lift #1	2.8%		138.3	97.8%
22		/ Lift #2	1.8%		136.9	96.8%
LOCATIO		-	1.0%		150.9	90.0%
LUCATIO		JUJ+JU				
LOCATIO	N:		<u> </u>			1
LOCATIO						
LOCATIO	N:		1			1
	<u>c.</u>					

REMARKS:



CLIENT:	Ludlow Constr 19 Carmelina's	s Circle	PRC	DJECT:	Durham Meadow Durham, CT	vs Waterline
	Ludlow, MA 0					
	Attn: Mr. Mike	e Pio				
DATE:	June 19, 2020		REF	ORT #:	19-75-012-080	Page 4 of 7
General Lo	ocation:	Route 68, Wa	aterline Trench			
Field Rep:		Stephen Stur	Stephen Sturges			
General C			truction Co., Inc.			
Earthwork	Contractor:	Ludlow Cons	truction Co., Inc.			
Air Temp:		86°F				
Weather:		Sunny				
Soil ID#:		, 3519-608				
Soil Type:			ravel w/ Silt & Sand (1.5" G	ravel)		
	ample Source:	Haynes Grou		,		
Proctor Va	alue:	138.9	lbs/ft ³	C	Optimum Moisture:	7.8%
Gauge Typ	be:	Troxler 3440		F	Required Compaction	n: 95.0%
TEST	DEPT	TH/ELEV.	MOISTURE		DRY DENSITY	COMPACTION
NUMBE		in/ft)	(%)		(pcf)	(%)
23		/ 4" BFG	1.7%		134.4	96.8%
LOCATIO						
24		/ 4" BFG	2.3%		132.1	95.1%
LOCATIO						
25		/ 4" BFG	1.9%		133.8	96.3%
LOCATIO			0.00/			07.00/
26		/ 4" BFG	2.6%		134.8	97.0%
LOCATIO		07+75 / 4" BFG	3.0%		135.1	97.3%
LOCATIO			5.0%		135.1	97.3%
28		/ 4" BFG	2.7%		134.3	96.7%
LOCATIO			2.770		137.5	50.770
29		/ 4" BFG	3.8%		136.1	98.0%
LOCATIO						
		Station #608+50				
30	12".				135.7	97.7%
30 LOCATIO			3.5%		135.7	97.7%



CLIENT:	Ludlow Constr 19 Carmelina Ludlow, MA 0 Attn: Mr. Mike	1056	PRC	DJECT:	Durham Meadow Durham, CT	s Waterline
DATE:	June 19, 2020		REF	ORT #:	19-75-012-080	Page 5 of 7
General Lo			aterline Trench			•
Field Rep:		Stephen Stur	ges			
General C	General Contractor:		truction Co., Inc.			
Earthwork	Contractor:	Ludlow Cons	truction Co., Inc.			
Air Temp:		86°F				
Weather:		Sunny				
Soil ID#:		3519-608				
Soil Type:		Light Gray Gr	avel w/ Silt & Sand (1.5" G	ravel)		
••	mple Source:	Haynes Grou		,		
D						7.00/
Proctor Va	alue:	138.9	lbs/ft ³		Optimum Moisture:	7.8%
Gauge Typ		Troxler 3440		R	equired Compaction	: 95.0%
TEST		TH/ELEV.	MOISTURE		DRY DENSITY	COMPACTION
NUMBE		in/ft)	(%)	_	(pcf)	(%)
31		/ 4" BFG	2.0%		133.9	96.4%
LOCATIO			2 40/		124.2	0.0
32 LOCATIO		/ 4" BFG	2.4%		134.2	96.6%
10CATIC 33		/ 4" BFG	2.3%		134.7	97.0%
			2.370		134.7	57.076
LOCATIC		03:23				
LOCATIO	DN:					
LOCATIO	DN:					
LOCATIO	DN:					
LOCATIC						
LOCATIC	DN:					
	DN:					
LOCATIC	DN: DN:					



CLIENT:	Ludlow Constr 19 Carmelina's Ludlow, MA 01 Attn: Mr. Mike	, MA 01056 Ir. Mike Pio			:	Durham Meadow Durham, CT	s Waterline
DATE:	June 19, 2020			REPORT	#:	19-75-012-080	Page 6 of 7
General Lo	cation:	Route 17, Hy	drant Connection				
Field Rep:		Stephen Stur	ges				
General Co	General Contractor:		truction Co., Inc.				
Earthwork	Contractor:	Ludlow Const	truction Co., Inc.				
Air Temp:		86°F					
Weather:		Sunny					
Soil ID#:		3519-600					
Soil Type:		Reddish brow	vn silty sand w/ gravel				
Proctor Sar	nple Source:	On site					
Proctor Val	. .	136.3	lbs/ft ³		Ont	timum Moisture:	6.6%
			105/10		•		
Gauge Type		Troxler 3440				uired Compaction	
TEST NUMBEI		H/ELEV. n/ft)			D		
34		16" BFG	(%) 4.0%			(pcf) 131.1	(%) 96.2%
LOCATIO			4.070			131.1	50.270
LOCATIO	N:						1
LOCATIO	N:						
LOCATIO	N:						
LOCATIO							
LUCATIO							1
LOCATIO	N·						
100,000							
LOCATIO	N:		1	I			
LOCATIO	N:						



CLIENT: DATE:	Ludlow Construction Co., Inc. 19 Carmelina's Circle Ludlow, MA 01056 Attn: Mr. Mike Pio June 19, 2020			PROJECT: REPORT #:	Durham Meadows Durham, CT 19-75-012-080	Waterline Page 7 of 7
		Route 17, Hy	drant Connection			
Field Rep:		Stephen Stur	ges			
General Contractor:		Ludlow Const	truction Co., Inc.			
Earthwork	Earthwork Contractor:		truction Co., Inc.			
Air Temp:		86°F				
Weather:		Sunny				
Soil ID#:		3519-608				
Soil Type:		Light Gray Gr	avel w/ Silt & Sand (1.5	" Gravel)		
Proctor Sar	mple Source:	Haynes Grou	р			
Proctor Va	luo.	138.9	lbs/ft ³		Optimum Moisture:	7.8%
			103/10		•	
Gauge Type		Troxler 3440			Required Compaction:	95.0%
TEST		H/ELEV.			DRY DENSITY	
NUMBE	R (i	n/ft)	(%)		(pcf)	(%)
NUMBEI 35	R (i 12"/	n/ft) / 4" BFG				
NUMBE	R (i 12"/	n/ft) / 4" BFG	(%)		(pcf)	(%)
NUMBEI 35	R (i 12"/ N: Station #2	n/ft) / 4" BFG	(%)		(pcf)	(%)
NUMBEI 35 LOCATIO LOCATIO	R (i 12"/ N: Station #2 N:	n/ft) / 4" BFG	(%)		(pcf)	(%)
NUMBEI 35 LOCATIO	R (i 12"/ N: Station #2 N:	n/ft) / 4" BFG	(%)		(pcf)	(%)
NUMBEI 35 LOCATIO LOCATIO	R (i 12"/ N: Station #2 N: N:	n/ft) 4" BFG	(%)		(pcf)	(%)
NUMBEI 35 LOCATIO LOCATIO	R (i 12"/ N: Station #2 N: N:	n/ft) 4" BFG	(%)		(pcf)	(%)
NUMBEI 35 LOCATIO LOCATIO LOCATIO	R (i 12"/ N: Station #2 N: N: N:	n/ft) 4" BFG	(%)		(pcf)	(%)
NUMBEI 35 LOCATIO LOCATIO	R (i 12"/ N: Station #2 N: N: N:	n/ft) 4" BFG	(%)		(pcf)	(%)
NUMBEI 35 LOCATIO LOCATIO LOCATIO	R (i 12"/ N: Station #2 N: N: N: N:	n/ft) 4" BFG	(%)		(pcf)	(%)
NUMBEI 35 LOCATIO LOCATIO LOCATIO LOCATIO	R (i 12"/ N: Station #2 N: N: N: N: N: N:	n/ft) 4" BFG	(%)		(pcf)	(%)
NUMBEI 35 LOCATIO LOCATIO LOCATIO LOCATIO	R (i 12"/ N: Station #2 N: N: N: N: N: N:	n/ft) 4" BFG	(%)		(pcf)	(%)
NUMBEI 35 LOCATIO LOCATIO LOCATIO LOCATIO	R (i 12"/ N:	n/ft) 4" BFG	(%)		(pcf)	(%)