



Conceptual Lot 1 Development

TEST PIT DATA
 NDH File No. 12000186
 Ground Water: N/O
 Testing Conducted on 2/15/18
 by Terra Bombard, R.S.

TP 6A-1 (2018)
 Mottles: N/O
 Ground Water: N/O
 Ledger: 67"
 0-9" Topsoil/Roots
 9-28" Very Fine Loomy Sand/Moist
 28-67" Compact Very Fine Loomy Sand

TP 6A-2 (2018)
 Mottles: 20"
 Ground Water: 20"
 Ledger: 67"
 0-8" Topsoil
 8-20" Very Fine Loomy Sand/Wet
 20-56" Groundwater

TP 3 (2019)
 Mottles: 30"
 Ground Water: N/O
 Ledger: N/O
 Roots: 42"
 0-12" Topsoil
 12-30" OB/YB Fine Sandy Loom
 30-70" GR Sandy Loom Till. Mottled

PERCOLATION TEST DATA
 Performed by CLA Engineers, Inc. on 9/28/20

Time	Measuredown (Inches)	Change (inches)
3:00	12"	-
3:05	15"	-3
3:10	18"	-3
3:15	20"	-2
3:20	21"	-1
3:25	22.5"	-1.5
3:30	24"	-1.5

Min. Perc Rate = 4 min./inch

SEPTIC SYSTEM DESIGN
PRIMARY LEACHING AREA
 3 BEDROOM RESIDENCE
 PERCOLATION RATE: 4 MIN./INCH
 LEACHING AREA REQUIRED: 495 SF

USE 12"x48" STONE TRENCH
 EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
 REQUIRED LENGTH = 495 SF / 3.0 SF/LF = 165 LF

MLSS CALCULATION
 HYDRAULIC FACTORS
 DEPTH TO RESTRICTIVE LAYER = 20"
 SLOPE = 6 VF / 71 LF = 8.4%
 HYDRAULIC FACTOR (HF) = 30
 FLOW FACTOR (FF) = 1.5
 PERCOLATION FACTOR (PF) = 1.0 (UP TO 10.0 MIN./INCH)
 MLSS REQUIRED: 30 x 1.5 x 1.0 = 45 LF

PROPOSED SYSTEM
 USE 3 ROWS OF 55 LF
 LEACHING AREA PROVIDED = 495 SF

RESERVE LEACHING AREA
 USE SAME AS PRIMARY SYSTEM

Conceptual Lot 2 Development

TEST PIT DATA
 NDH File No. 12000186
 Ground Water: N/O
 Testing Conducted on 8/6/20
 by Sherry McGinn, R.S.

TP 6-1
 Mottles: 28"
 Ground Water: N/O
 Roots: 28"
 Ledger: 84"
 0-12" Topsoil
 12-28" OB Fine Sandy Loom
 28-94" GR Mottled Sandy Loom Till

TP 6-2
 Mottles: 32"
 Ground Water: N/O
 Roots: 32"
 Ledger: 100"
 0-13" Topsoil
 13-32" OB Fine Sandy Loom
 32-100" GR Mottled Sandy Loom Till

TP 6-3
 Mottles: 24"
 Ground Water: N/O
 Roots: 24"
 Ledger: 84"
 0-8" Topsoil
 8-24" RB Fine Sandy Loom
 24-84" GR Mottled Sandy Loom Till

TP 6-4
 Mottles: 30"
 Ground Water: N/O
 Roots: 30"
 Ledger: 89"
 0-11" Topsoil
 11-30" YB/RB Fine Sandy Loom
 30-89" GR Mottled Sandy Loom Till

PERCOLATION TEST DATA
 Performed by CLA Engineers, Inc. on 8/6/20

Time	Measuredown (Inches)	Change (inches)
1:16	3.25	-
1:18	7.25	4
1:20	9	1.75
1:22	11	2
1:24	12.25	1.25
1:26	13.25	1
1:28	14.5	1.25
1:30	15.5	1
1:32	16.5	1
1:34	17	0.5
1:36	17.5	0.5
1:38	18	0.5
1:40	18.5	0.5
1:42	19	0.5

Perc 6-A: Presoak @ 12:22, 5"
 Perc 6-B: Presoak @ 12:27 pm, 6.5"
 Perc Rate = 4 min./inch

PERCOLATION TEST DATA
 Performed by CLA Engineers, Inc. on 8/6/20

Time	Measuredown (Inches)	Change (inches)
12:50	4.25	-
12:52	7.75	3.5
12:54	11	3.25
12:56	13.25	2.25
12:58	14.75	1.5
1:00	16.25	1.5
1:02	17.5	1.25
1:04	18.75	1.25
1:06	19.5	0.75
1:08	20.75	1.25
1:10	21.25	0.5
1:12	22.5	1.25

Perc Rate = 4 min./inch

SEPTIC SYSTEM DESIGN
PRIMARY LEACHING AREA
 3 BEDROOM RESIDENCE
 PERCOLATION RATE: 4 MIN./INCH
 LEACHING AREA REQUIRED: 495 SF

USE 12"x48" STONE TRENCH
 EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
 REQUIRED LENGTH = 495 SF / 3.0 SF/LF = 165 LF

MLSS CALCULATION
 HYDRAULIC FACTORS
 DEPTH TO RESTRICTIVE LAYER = 24"
 SLOPE = 10 VF / 86 LF = 11.6%
 HYDRAULIC FACTOR (HF) = 28
 FLOW FACTOR (FF) = 1.5
 PERCOLATION FACTOR (PF) = 1.0 (UP TO 10.0 MIN./INCH)
 MLSS REQUIRED: 28 x 1.5 x 1.0 = 39 LF

PROPOSED SYSTEM
 USE 3 ROWS OF 55 LF
 LEACHING AREA PROVIDED = 495 SF

RESERVE LEACHING AREA
 USE SAME AS PRIMARY SYSTEM



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Subdivision Plan Prepared for Paul R. Lehto
 #40 Almada Drive, Brooklyn, Connecticut

Two Lot Resubdivision
 40 Almada Drive
 Brooklyn, Connecticut

Lot Development Plan
 Lot 1 & Lot 2

Project No. CLA-6383
 Proj. Engineer K.J.H.
 Date: 3/31/2021
 Sheet No. 7