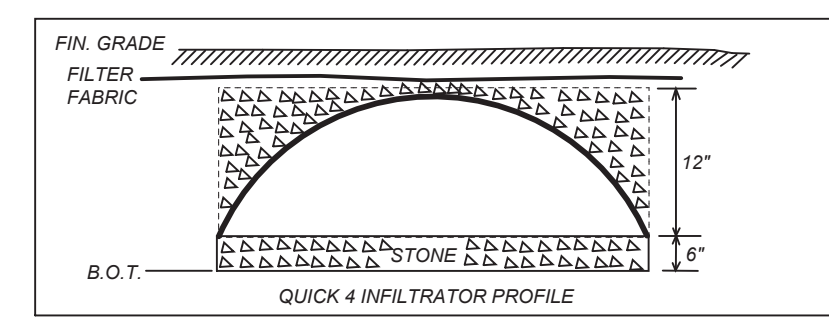


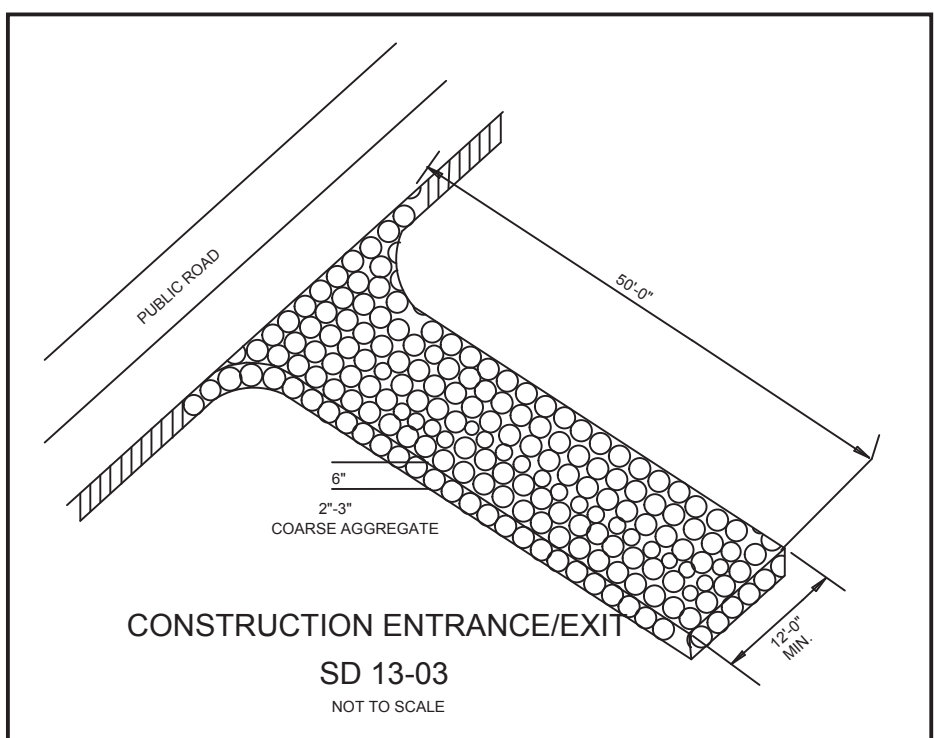
ROOF WATER INFILTRATOR UNIT
LOT 1
 INFILTRATOR SIZE FORMULA 1" CAPTURE
 2250 SQ. FT. ROOF AREA X 0.083 (1") = 186.75 X 80%
 = 149.4
 149.4 BY 47 GALLONS PER UNIT = 1.86
 USE 4 UNITS

LOT 1A
 INFILTRATOR SIZE FORMULA 1" CAPTURE
 1872 SQ. FT. ROOF AREA X 0.083 (1") = 155.38 X 80%
 = 124.30
 124.30 BY 47 GALLONS PER UNIT = 2.64
 USE 3 UNITS



SEPTIC DESIGN LOT 1
 FOUR BEDROOM HOUSE 577.5 S.F. OF EFFECTIVE LEACHING
 MLSS 18 X 1.0 X 1.75 = 28'
 USE 11 MANTIS UNITS @ 11 SQ. FT. CREDIT
 605 SQ. FT. OF EFFECTIVE AREA PROVIDED
 B.O.T. NO DEEPER THAN 18" INTO EXISTING GRD.
 1,250 GALLON SEPTIC TANK

SEPTIC DESIGN LOT 1A
 FOUR BEDROOM HOUSE 577.5 S.F. OF EFFECTIVE LEACHING
 MLSS 18 X 1.0 X 1.75 = 31.5'
 USE 11 MANTIS UNITS @ 11 SQ. FT. CREDIT
 605 SQ. FT. OF EFFECTIVE AREA PROVIDED
 B.O.T. NO DEEPER THAN 17" INTO EXISTING GRD.
 1,250 GALLON SEPTIC TANK



WETLAND & EROSION NARRATIVE

SITE DESCRIPTION
 THE SITE IS LOCATED ON THE EASTERLY SIDE OF YOUNG STREET. THE SITE IS MOSTLY LIGHT WOODS WITH A FEW OLDER TREES. OLD HOUSE THAT IS SHOWN ON THE PLAN IS TO BE REMOVED FROM SITE AND REGRADED TO ORIGINAL GRADES. THE LOT HAS AREAS WITH SLOPES THAT VARY FROM 2 TO 14 PERCENT. THERE ARE SOME FLATTER AND STEEPER AREAS. THE EASTERLY LIMIT OF WETLAND AREAS HAVE BEEN MAPPED AND ARE SHOWN ON THE PLANS.

PROJECT DESCRIPTION
 THE PROJECT WILL INCLUDE 2 REVISED LOT LAYOUTS. EXISTING LOT LAYOUT IS ONE LOT ON YOUNG STREET AND ONE LOT FROM PRIOR SUBDIVISION. REVISED LOT LAYOUT WAS PERFORMED TO ELIMINATE ANY WETLAND DISTURBANCE.

EROSION AND SEDIMENTATION CONTROL PLAN MEASURES

A. IDENTIFICATION OF POTENTIAL PROBLEMS

1. WIND EROSION, BECAUSE THE SITE WILL BE EXPOSED. WIND EROSION ON THE SITE DURING CONSTRUCTION IS A POTENTIAL PROBLEM. THE CONTRACTOR SHOULD BE PREPARED TO MITIGATE THE EFFECTS OF WIND EROSION BY USE OF WATER TRUCKS, MULCHING AND/OR TEMPORARY SEEDING.
2. TRACKING
3. WATER EROSION

B. DUE TO THE FACT THE PROPOSED CONSTRUCTION IS ACCESSED VIA AN EXISTING COMMERCIAL AREA OVER PAVED ROADS, TRACKING OF MUD AND SOIL ONTO THE ADJACENT ROADWAYS AND ENTERING THE EXISTING STORM DRAINS IS A POSSIBILITY. THE CONTRACTOR SHOULD BE PREPARED TO MAINTAIN AND UTILIZE THE ANTI TRACKING PADS AT THE CONSTRUCTION ENTRANCES.

C. WATER EROSION

1. ALTHOUGH THE CONSTRUCTION AREA HAS A LIMITED WATERSHED AREA, WATER EROSION STILL PROVIDES THE GREATEST POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS. THE FOLLOWING KEY ELEMENTS SHOULD GREATLY MITIGATE THE POTENTIAL PROBLEMS.
2. CONSTRUCTION EFFICIENCY

THE POTENTIAL FOR SEVERE EROSION AND SEDIMENTATION DURING CONSTRUCTION CAN BE GREATLY REDUCED BY EFFICIENT AND TIMELY CONSTRUCTION THEREBY REDUCING THE TIME IN WHICH DISTURBED AREAS ARE SUBJECT TO WIND AND/OR WATER EROSION.

1. TIMING OF CONSTRUCTION
3. PROPER INSTALLATION OF SILT FENCE

EROSION AND SEDIMENTATION CONTROLS THAT ARE NOT INSTALLED PROPERLY ONLY IN VITE PROBLEMS. THE CONTRACTOR SHOULD BE FAMILIAR WITH PROPER INSTALLATION AND MAINTENANCE PROCEDURES OF EROSION AND SEDIMENTATION CONTROL DEVICES AS OUTLINED IN THE CONNECTICUT GUIDELINES FOR SOIL AND SEDIMENT CONTROL, DATED 2002.

4. PREPAREDNESS

THE CONTRACTOR SHOULD BE PREPARED FOR EROSION AND SEDIMENTATION CONTROL EMERGENCIES BY KEEPING ON SITE A STOCK OF EROSION AND SEDIMENTATION CONTROL TOOLS AND SUPPLIES SUCH AS FENCE, STONE, HAY BALS, STAKES, ETC. IN ADDITION, PROPER MAINTENANCE OF CONTROLS GREATLY REDUCES THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL DISASTERS.



LOT 1
PERFORMED 8/19/2019

PERC NO. 1-P PRESOAK TIME 10:00 AM DEPTH HOLE 22" NAIL DOWN 2"

START TIME	DEPTH	TIME CHANGE	DEPTH CHANGE	MIN./IN.
11:16	9-1/2"	10 MIN.		
11:26	14-1/2"	10 MIN.	5"	
11:36	17"	10 MIN.	2-1/2"	
11:46	19"	10 MIN.	2"	5.0 MI
11:56	DRY			

LOT 1
PERFORMED 8/19/2019

PERC NO. 1-R PRESOAK TIME 10:00 AM DEPTH HOLE 20" NAIL DOWN 2"

START TIME	DEPTH	TIME CHANGE	DEPTH CHANGE	MIN./IN.
11:18	9"	10 MIN.		
11:28	15-1/2"	10 MIN.	6-1/2"	
11:38	17-1/2"	10 MIN.	2"	
11:48	DRY	10 MIN.		5.0 MI

LOT 1A
PERFORMED 8/21/2019

PERC NO. A1-P PRESOAK TIME 7:00 AM DEPTH HOLE 20" NAIL DOWN 2"

START TIME	DEPTH	TIME CHANGE	DEPTH CHANGE	MIN./IN.
7:50	6-1/4"	10 MIN.		
8:00	15-1/2"	10 MIN.	9-1/4"	
8:10	17-1/2"	10 MIN.	2"	
8:20	DRY	10 MIN.		5.0 MI

LOT 1A
PERFORMED 8/21/2019

PERC NO. 1A-R PRESOAK TIME 7:00 AM DEPTH HOLE 20" NAIL DOWN 2"

START TIME	DEPTH	TIME CHANGE	DEPTH CHANGE	MIN./IN.
7:55	7"	10 MIN.		
8:05	15-3/4"	10 MIN.	8-3/4"	
8:16	17-3/4"	10 MIN.	2"	
8:26	DRY	10 MIN.		5.0 MI

FORM #2 State of Connecticut Department of Public Health Application Permit No. 1/1/04
SITE INVESTIGATION FOR A SEWAGE DISPOSAL SYSTEM

Property Owner : Jim Marino
 Location : 8 Carriage Drive, East Hampton, CT. (AKA 100 Young Street)

DATE: 8/8/2019
DEEP TEST PIT DATA/SOIL DESCRIPTIONS
 (Record all Test Pits)

TEST PIT:	TP-101	TEST PIT:	TP-102	TEST PIT:	TP-103	TEST PIT:	TP-104
0-9" Topsoil and leaf litter	0-8" Topsoil and leaf litter	0-6" Topsoil and leaf litter	0-9" Topsoil	9-14" Orange brown fine sandy loam	8-38" Orange brown fine sandy loam w/some gravel and many stones and rocks (loose)	6-21" Orange brown fine sandy loam with stones	9-27" Orange brown fine sandy loam, some gravel (loose)
14-26" Grey medium to coarse sand and gravel (loose)	26-81" Grey sandy till w/stones and rocks (loose to firm)	38-77" Grey sandy till w/stones and rocks (loose to firm)	27-78" Brown to grey sandy till, some stones (loose to firm)	Mottles: None	Mottles: None	Mottles: Possible @ 42"	Mottles: None
GW: None	GW: None	GW: None	GW: None	Ledge: None	Ledge: None	Ledge: None	Ledge: None
Roots: Most 24", some 54"	Roots: 54"	Roots: 47"	Roots: 35"	Restrictive: None	Restrictive: None	Restrictive: 42"	Restrictive: None

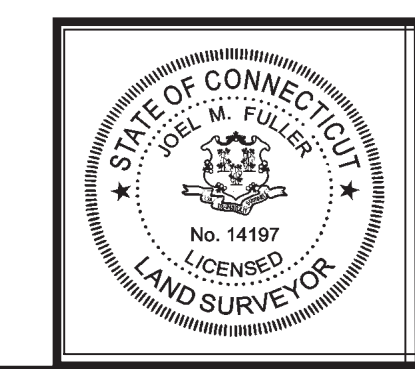
TEST PIT:	TP-105	TEST PIT:	TP-106	TEST PIT:	TP-107	TEST PIT:	TP-108
0-7" Topsoil	0-10" Topsoil and leaf litter	0-7" Topsoil and leaf litter	0-6" Topsoil and leaf litter	7-24" Orange brown fine sand	10-29" Light orange brown loamy fine sand, some gravel (loose)	20-38" Olive brown fine to medium sand, some gravel (loose)	18-28" Tan fine to medium sand, some gravel (loose)
24-68" Olive brown and grey fine sand, some gravel (loose)	29-55" Grey sandy till	38-68" Grey sandy till with rocks and stone (loose to firm)	28-66" Grey sandy till (loose to firm)	Mottles: Possible @ 51"	Mottles: 34"	Mottles: None	Mottles: Possible @ 41"
GW: None	GW: None	GW: None	GW: None	Ledge: None	Ledge: Refusal at 55", could be rocks	Ledge: None	Ledge: None
Roots: 33"	Roots: 38"	Roots: 40"	Roots: Most 20", some 52"	Restrictive: 51"	Restrictive: 34"	Restrictive: None	Restrictive:

COMMENTS: Below maximum
 Ground water table: (Near max, below max etc.)
 Soil Moisture (High, medium, low etc.) Low - medium

SPECIAL CONDITIONS	CONCLUSIONS	
Design Flow > 2000 GPD	Suitable for Sewage Disposal	Yes
Public Water Supply Watershed	Unsuitable for Sewage Disposal	
Probable High Groundwater	Additional Investigation Req'd	
Slope: 25 percent	Wet Season Monitoring Req'd	
Perce Rate < 1 mm/inch	Retest During Wet Season	
Perce Rate > 30 mm/inch	Licensed Engineer Plan Req'd	Yes
Ledge < 5 feet below grade	Other:	
Limited Suitable Area		
Open Watercourse or Wetlands		
Flood Plain / Seasonal Flooding		
G.W. 36 inches below grade		

FORM COMPLETED BY: Don Mitchell, Sanitarian III
 OTHERS PRESENT FOR SITE INVESTIGATION: Jim Marino- owner, Joel Fuller - surveyor

B-100 PLAN
 PREPARED FOR
JAMES MARINO
 YOUNG STREET & CARRIAGE DRIVE
 EAST HAMPTON, CONNECTICUT
 SCALE: 1" = 30' - DATE: AUG 22, 2019
 REV: 9/12/2019 REV: 9/24/2019 REV: 9/19/2019



JOEL M. FULLER
 191 JONES HOLLOW ROAD
 MARLBOROUGH, CONN. 06447
 LICENSED LAND SURVEYOR
 860-670-1800
990

REFER TO A MAP ENTITLED "CONN. STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP, TOWN OF EAST HAMPTON, YOUNG STREET FROM THE HADDAM TOWN LINE NORTHERLY ABOUT 18,900 FEET, ROUTE NO. 196, SCALE: 1"=40', JAN. 31, 1941, #41-14, SHEET 6 OF 7."

REFER TO A MAP ENTITLED "SUBDIVISION PLAN PREPARED FOR DAWN MARIE ANGEL, YOUNG STREET EAST HAMPTON, CONN. SCALE: 1"=100', FEB. 14, 1997, CLASS A-2 SURVEY, FRANCIS E. HAMM LAND SURVEYOR, COLCHESTER, CONN."

I DELINEATED THE INLAND WETLAND AND WATERCOURSE BOUNDARY ON THIS PROPERTY. I AM OF THE OPINION THAT THE WETLAND BOUNDARY WHICH I MARKED ON THE PROPERTY IS SHOWN CORRECTLY ON THIS MAP.

R. Richard Smarski (390)
 R. RICHARD SMARSKI, CERTIFIED SOIL SCIENTIST #1976
 DATE: 9/18/2019
 JOEL M. FULLER CT. L.S. NO. 14197

SEPTIC AREA TOPOGRAPHY CLASS T-3
 THIS SURVEY MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300b-1 THRU 20-300b-20 OF THE REGULATIONS OF STATE AGENCIES "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONN." AS ENDORSED BY THE CONN. ASSOC. OF LAND SURVEYORS, INC. IT IS AN IMPROVEMENT LOCATION SURVEY BASED ON A DEPENDENT RESURVEY CONFORMING TO CLASS A-2 STANDARDS.

TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

