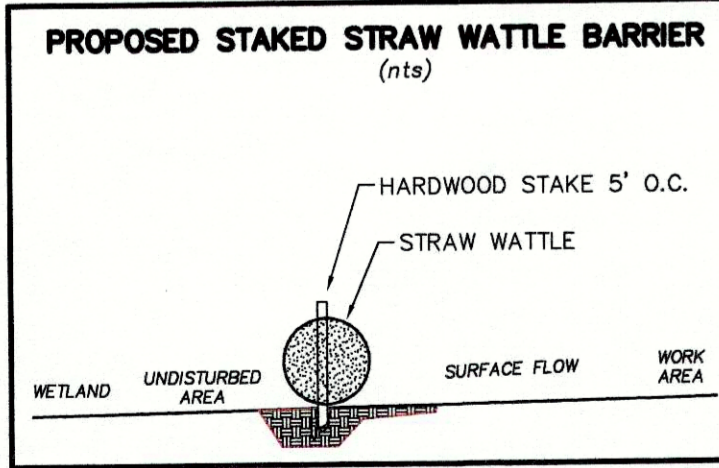


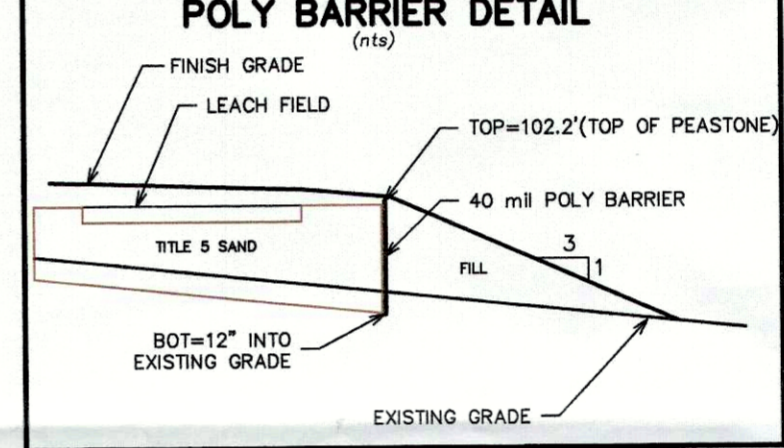
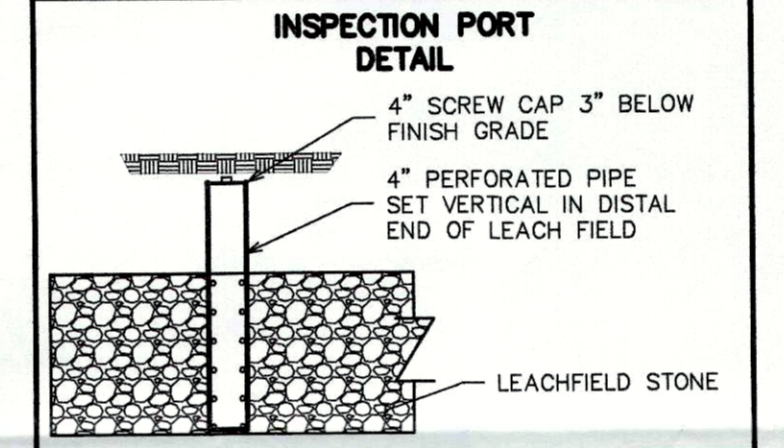
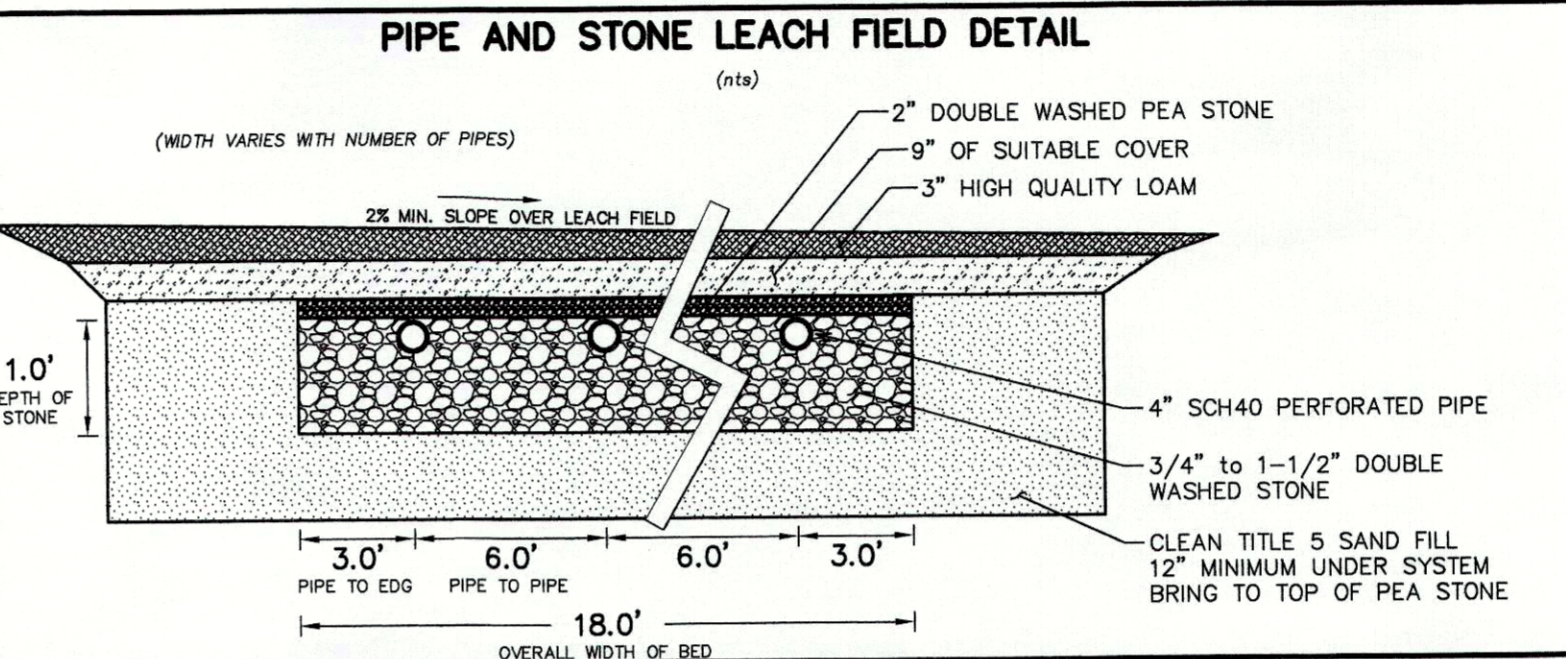
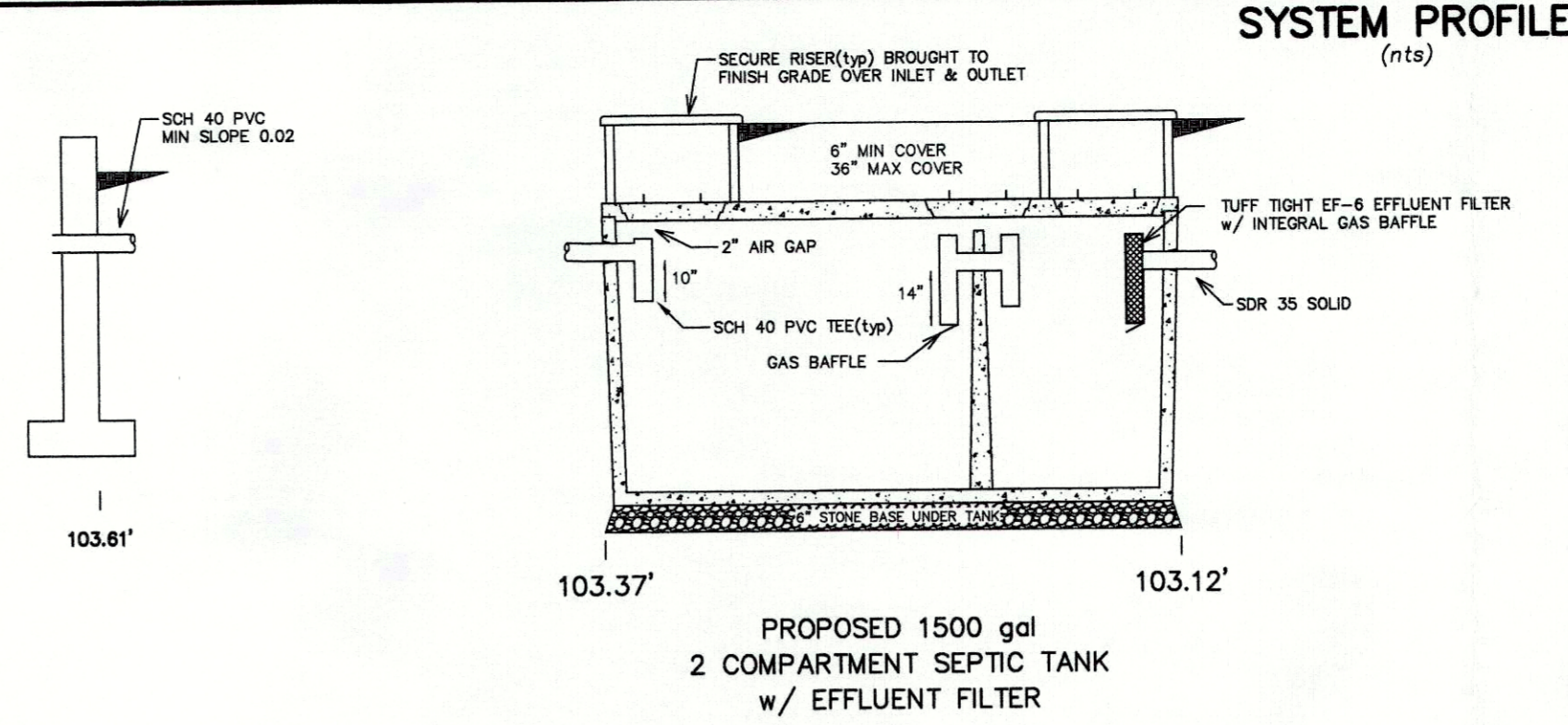
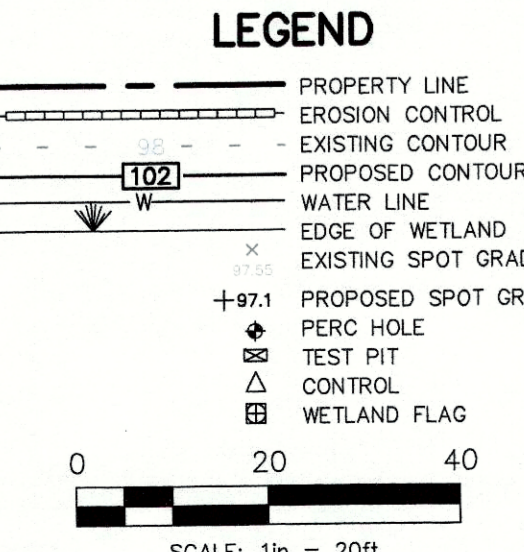
NOTE:
MAGNETIC MARKING TAPE OR AN APPROVED
EQUAL SHALL BE PLACED OVER ALL
COMPONENTS AND PIPES IN THE SYSTEM



- WETLAND PROTECTION MEASURES:**
- 1) STAKED STRAW WATTLES SHALL BE INSTALLED AS SHOWN ON THE PLAN. THEY SHALL BE INSPECTED BY THE LOCAL CONSERVATION COMMISSION, IF REQUIRED, BEFORE CONSTRUCTION.
 - 2) WITHIN THE 100' BUFFER ZONE ALL DISTURBING OF SOIL SHALL BE MINIMIZED.
 - 3) ALL DISTURBED AREAS SHALL BE LOAMED, SEEDED AND MULCHED AS SOON AS POSSIBLE.
 - 4) NO WORK OR STORAGE OF MATERIAL SHALL BE DOWN HILL OF THE STRAW WATTLES.
 - 5) ALL NECESSARY PERMITS SHALL BE OBTAINED BEFORE WORK COMMENCES.
 - 6) OWNER AND CONTRACTOR SHALL ADHERE TO ANY ORDERS ISSUED BY THE LOCAL CONSERVATION COMMISSION.

THERE ARE NO WELLS WITHIN 100' OF THE PROPOSED SEPTIC SYSTEM.

PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL NOTIFY DIG SAFE



DESIGN CALCULATIONS
DESIGN CRITERIA:
SINGLE FAMILY HOME NO GARBAGE DISPOSAL
DESIGN PERC RATE: 10 mpl
LOADING RATE: 0.6 gpd/ft²
DESIGN FLOW:
(3 BEDROOM(S)) (110 gpd/BEDROOM) = 330 gpd
SEPTIC TANK:
1500 gal REQUIRED - 1500 gal 2 COMPARTMENT PROVIDED
SOIL ABSORPTION SYSTEM (SAS):
REQUIRED: (330 gpd) / (0.60 gpd/ft²) = 550 ft²
PROVIDED: PIPE AND STONE BED
1 BED(S) 40 ft L x 18 ft W x 1 ft D
(1) 40 ft x 18 ft = 720 ft²

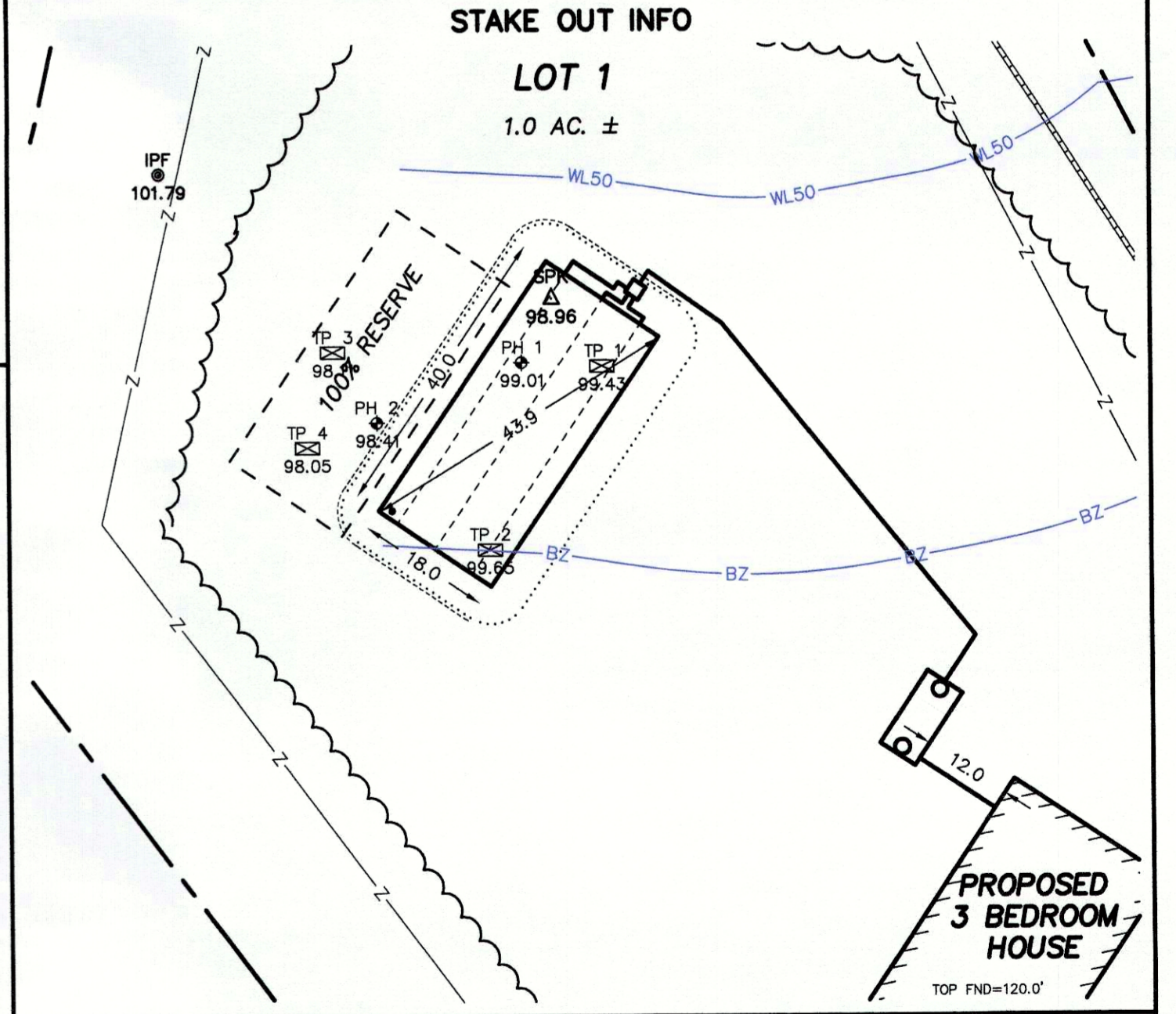
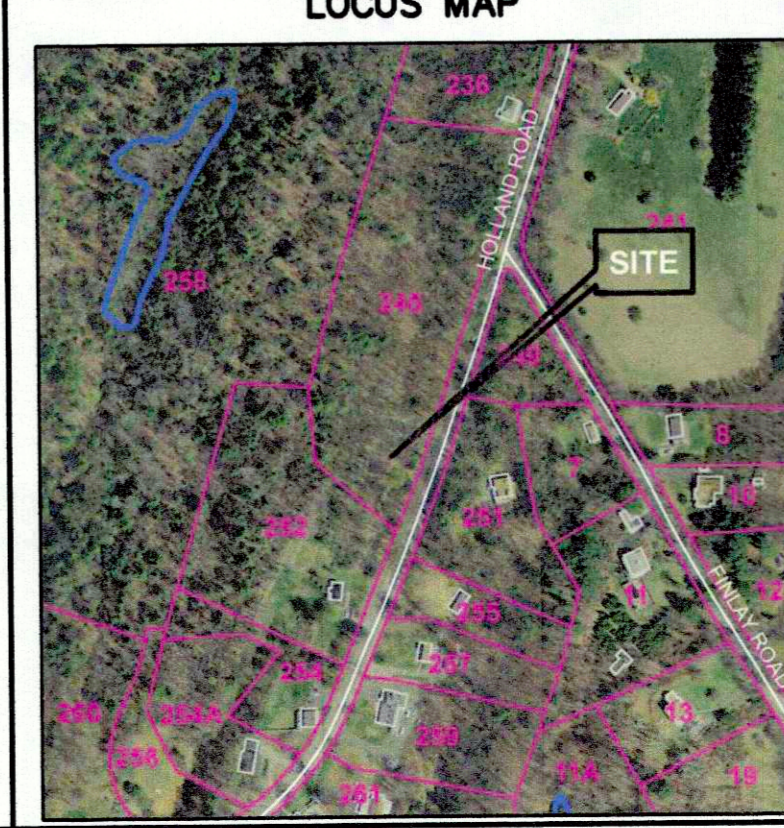
DESIGNER CERTIFICATIONS
I certify that in June of 1994 I passed the soil evaluator examination by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.
Signature: *Mark Farrell* Date: *9/12/19*

SOIL TESTING RESULTS
DATE OF TEST: 18 JUNE 2019
SOIL EVALUATOR: MARK FARRELL
WITNESS: KEN LACEY
PERC RATE #1 5 mpl PERC RATE #2 5 mpl
ALTERNATIVE TO THE PERC TEST RESULTS:

DEPTH	HRZ	TX1	COLOR	MOTTLE/OTHER
0 - 12 in	A	SL	10YR 3/2	
12 - 33 in	Bw	SL	10YR 6/8	
33 - 84 in	C	SL	2.5Y 6/4	COMMON 10YR 6/8@4 in WEeping @4in

- GENERAL NOTES**
- 1) ALL CONSTRUCTION PRACTICE AND MATERIALS MUST CONFORM TO 310 CMR 15 (TITLE 5) AS REVISED 9 SEPTEMBER 2016 AND/OR LOCAL REGULATIONS.
 - 2) CONTRACTOR IS RESPONSIBLE FOR VIEWING SITE BEFORE BIDDING JOB TO BECOME FAMILIAR WITH ALL ASPECTS OF THE JOB.
 - 3) CONTRACTOR SHALL VERIFY ALL INVERTS AND SETBACKS FROM WELLS, PROPERTY LINES AND WATER BEFORE BEGINNING WORK.
 - 4) IF CONDITIONS IN THE FIELD DIFFER THAN THOSE SHOWN ON THE PLAN, WORK SHALL STOP, AND THE DESIGN ENGINEER AND THE BOARD OF HEALTH SHALL BE CONSULTED BEFORE WORK CONTINUES.
 - 5) CONTACT THE DESIGN ENGINEER AND BOARD OF HEALTH FOR A REQUIRED BOTTOM INSPECTION BEFORE PLACING SAND OR STONE. CONTACT DESIGN ENGINEER AND BOARD OF HEALTH FOR FINAL INSPECTION BEFORE COVERING SYSTEM.
 - 6) THE CONTRACTOR SHALL INSURE ALL NECESSARY PERMITS HAVE BEEN OBTAINED BEFORE INSTALLING THE SYSTEM.
 - 7) NO PERMANENT STRUCTURES SHALL BE PLACED ON THE PROPOSED DISPOSAL SYSTEM.
 - 8) PROPERTY LINES ARE GRAPHIC ONLY AND ARE NOT TO BE USED TO ERECT FENCES OR SHEDS. NO PROPERTY SURVEY WAS DONE.
 - 9) THE DESIGN ENGINEER'S ONLY WARRANTY IS THE SYSTEM IS DESIGNED ACCORDING TO TITLE V UNLESS OTHERWISE NOTED.

DEPTH	HRZ	TX1	COLOR	MOTTLE/OTHER
0 - 12 in	A	SL	10YR 3/2	
12 - 33 in	Bw	SL	10YR 6/8	
33 - 84 in	C	SL	2.5Y 6/4	COMMON 10YR 6/8@38 in WEeping @4in



GREEN HILL ENGINEERING
10 MAIN STREET
STURBRIDGE, MA 01566
508-347-5226 (W)
508-347-9857 (F)
WORKING TO PROTECT OUR WATER RESOURCES
PERC TESTING SEPTIC DESIGN WETLAND PERMITTING ENVIRONMENTAL CONSULTING

PROPOSED SEPTIC SYSTEM
NEW CONSTRUCTION
JAMES HARRITY
LOT 1 - 246 HOLLAND RD (PORTION OF)
STURBRIDGE MA
11 SEPTEMBER 2019
MAP 32 PARCEL 246 (PORTION OF)
JOB: 2019-042

SCHEDULE OF INVERTS

	BEG INVERTS		END INVERTS	
	PROP.	AS-BUILT	PROP.	AS-BUILT
HSE INV	103.61'		103.12'	
ST TANK	103.37'		103.12'	
PC TANK				
D-BOX	102.37'		102.20'	
PIPE 1	101.70'		101.50'	
PIPE 2	101.70'		101.50'	
PIPE 3	101.70'		101.50'	
PIPE 4				
PIPE 5				
PIPE 6				
PIPE 7				
PIPE 8				