

- CONSTRUCTION SEQUENCE:**
1. INSTALL THE PROPOSED EROSION CONTROLS AND REQUEST INSPECTION FROM CONSERVATION COMMISSION.
 2. CLEAR AND GRUB AND OCCUPY THE PROPOSED WORK AREA.
 3. EXCAVATE AND PLACE PERVIOUS MATERIAL. MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
 4. PLACE SILT FENCE.
 5. A. PROPOSED SEPTIC SYSTEM CONSTRUCTION B. PROPOSED BUILDING CONSTRUCTION C. INSITV PROPOSED UTILITIES D. SITE GRADING & FINISH GRADING E. SITE GRADING & FINISH GRADING
 6. STABILIZE THE SITE WITH SOIL AND SEED.
 7. REMOVE THE PROPOSED EROSION CONTROLS.

DESIGN CRITERIA

TYPE OF BUILDING:	EXISTING RESIDENTIAL
2 BEDROOMS	2
PERVIOUS RATE:	14 MPH & 2 MPH
SOIL GROUP (1-4):	2
GRADE CHANNEL:	NOT ALLOWED
PIPE ROW LENGTH:	40 FT
EMBO-SEPTIC PIPE ROWS:	210 FT
USE C/L TO C/L SPACING:	120 FT
NUMBER OF ROWS PER SECTION:	1
NUMBER OF ROWS:	6
MIN SAND AREA PROVIDED:	400 SQ FT
SYSTEM SAND WIDTH:	44 FT
EMBO-SEPTIC PIPE ROWS:	10.5 FT
SYSTEM SAND WIDTH:	10.5 FT
BOTTOM ELEVATION OF EMBO-SEPTIC PIPE =	225.50
SYSTEM SAND (-3) BEYOND LOWEST ROW =	1 FT
MATERIAL COVER OVER EMBO-SEPTIC PIPES =	1.0 INCHES
CENTER-TO-CENTER PIPE SPACING =	1.5 FT
NUMBER OF ROWS =	6 ROWS
SEPARATION DISTANCE TO GROUNDWATER	5 FT
PROPOSED ELEVATION OF SYSTEM SAND (C-3) =	225.00 FT
BOTTOM ELEVATION FROM PIPE TO PRE =	0.00 FT
BOTTOM ELEVATION FROM BOTTOM OF SYSTEM =	225.00 FT
TOTAL SYSTEM SAND (C-3) WIDTH =	10.5 FT

PROPOSED COMPONENT ELEVATIONS

PROPOSED INVERT AT FOUNDATION	207.00
INVERT AT TANK INLET	206.75
INVERT AT TANK CHAMBER IN	206.25
INVERT AT PUMP CHAMBER IN	206.25
INVERT AT PUMP CHAMBER OUT	205.75
INVERT AT BOB OUTLET	226.28

FIELD ELEVATIONS

ROW #	1	2	3	4	5	6
FINISH GRADE (SYSTEM SLOPE = 0%)	227.50	227.50	227.50	227.50	227.50	227.50
EMBO-SEPTIC PIPE	226.50	226.50	226.50	226.50	226.50	226.50
4\"/>						

- CONVENTIONAL SIZING REQUIREMENT COMPLIANCE**
- LEACHING AREA REQUIRED UNDER TITLE 5: (220.00K GPD)/(0.56 GPD/S.F.) = 589 S.F.
- PERVIOUS SYSTEMS ARE REQUIRED TO BE NO LESS THAN 6\"/>

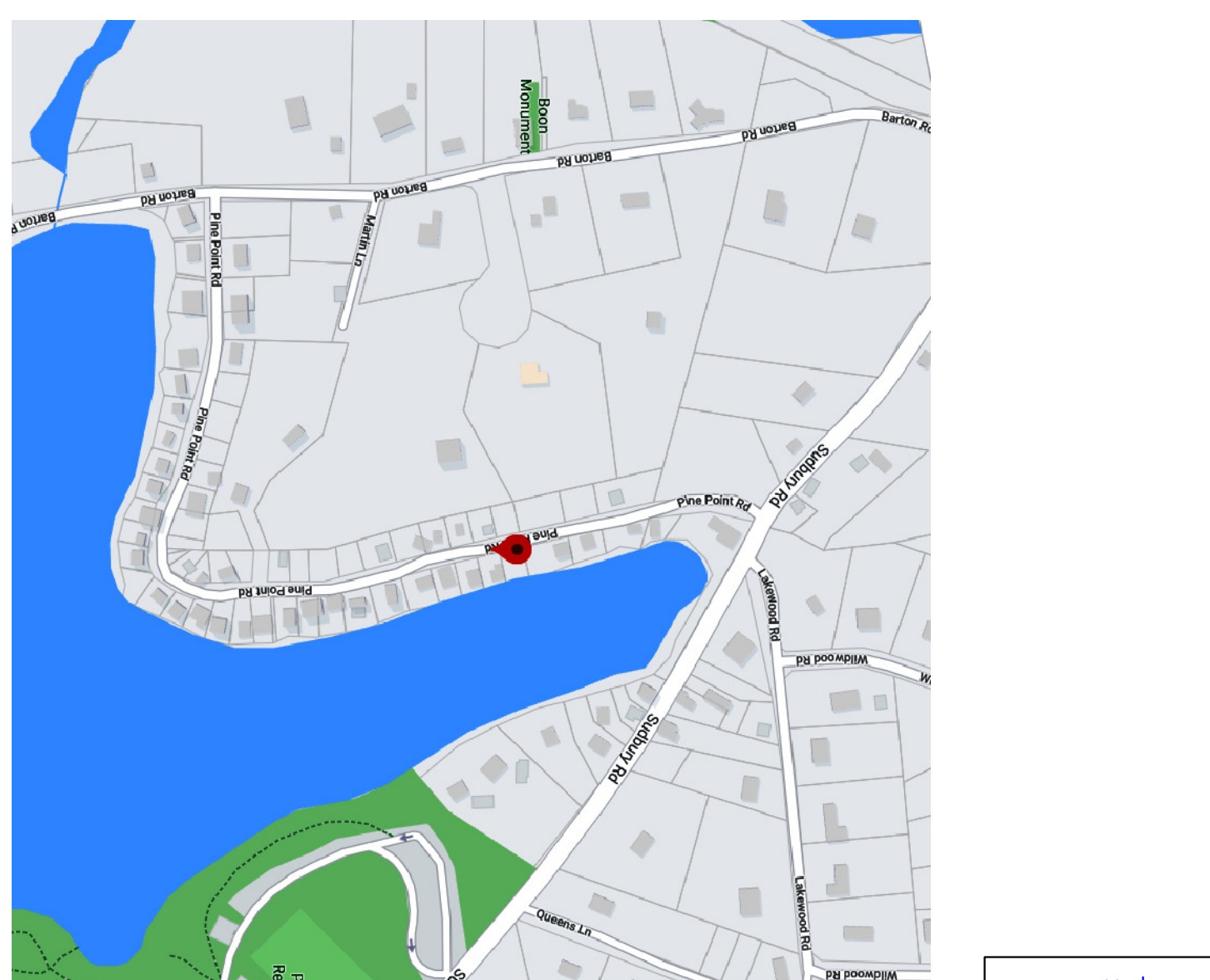
AND NO LESS THAN 4\"/>

441 S.F. PROVIDED > 589 S.F. (60%)

441 S.F. PROVIDED > 353 S.F. (80%)

SOIL TESTING

DATE PERFORMED:	12/17/19
BY:	SHEILEY HIL TORREN
WITNESS:	KAREN GONDRON
DH-1	
SURFACE	L 10R63/3
A 0-16	A 0-16
B 16-24	B 16-24
BC 24-30	BC 24-30
CI 30-60	CI 30-60
CS 2.95/3	CS 2.95/3
CS 2.95/4	CS 2.95/4
CS 60-95	CS 60-95
NO W/W/R/	NO W/W/R/
DH-2	
SURFACE	L 10R63/3
A 0-16	A 0-16
B 16-24	B 16-24
CI 30-64	CI 30-64
CS 2.95/4	CS 2.95/4
CS 64-97	CS 64-97
NO W/W/R/	NO W/W/R/
DH-3	
SURFACE	L 10R63/3
A 0-9	A 0-9
B 9-28	B 9-28
CI 28-61	CI 28-61
CS 2.95/3	CS 2.95/3
CS 61-72	CS 61-72
NO W/W/R/	NO W/W/R/



PERC TEST

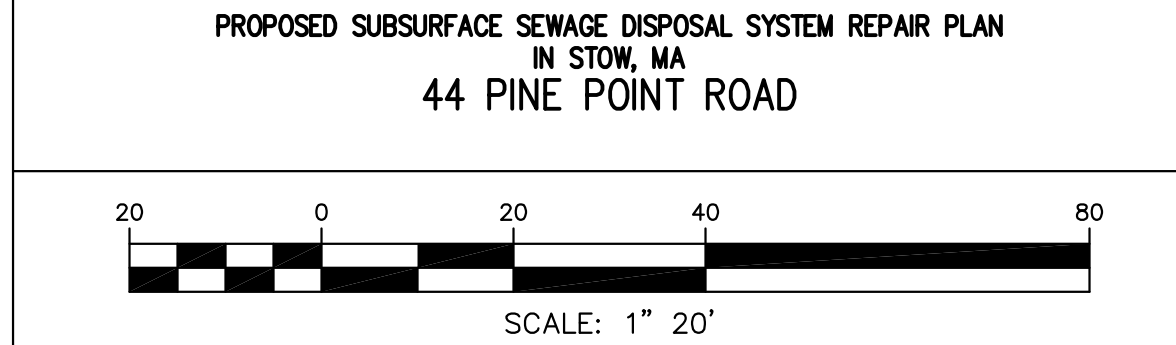
DATE PERFORMED:	12/17/19
BY:	SHEILEY HIL TORREN
WITNESS:	KAREN GONDRON
PERC RATE:	14 MPH
PERC RATE:	2 MPH
DATE PERFORMED:	7/26/20

NO.	REVISION	DATE
1	REVISED PER BOH & ZBA	8/24/20



OWNER:
FRANS & MARY JANE CRAMER
52 FLINT DRIVE
MARLBORO MA, 01752

APPLICANT:
FRANS & MARY JANE CRAMER
52 FLINT DRIVE
MARLBORO MA, 01752



QUINN ENGINEERING, INC.
P.O. Box 107
Paxton, Massachusetts 01612
(508)753-7999 Fax:(508)795-0939

DATE: FEBRUARY 7, 2020

PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM REPAIR PLAN

44 PINE POINT ROAD

SHEET 2 OF 3