

- - 98 - - EXISTING CONTOUR

PROPOSED CONTOUR --- WATER LINE

PERC HOLE

TEST PIT

△ CONTROL

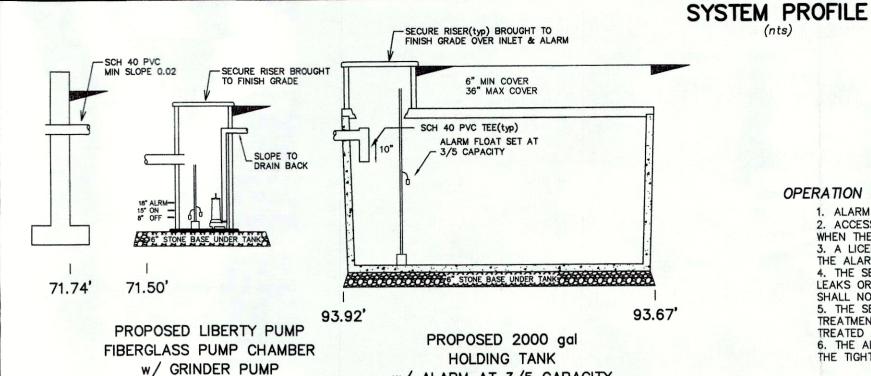
SCALE: 1in = 20ft

WETLAND FLAG

- EDGE OF WETLAND EXISTING SPOT GRADE

+97.1 PROPOSED SPOT GRADE

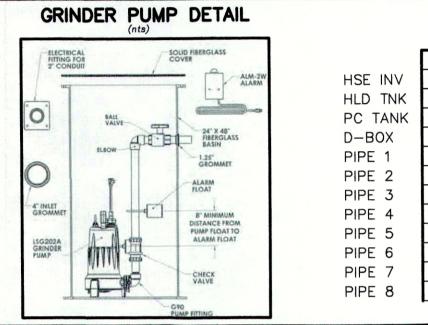
PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL NOTIFY DIG SAFE



w/ ALARM AT 3/5 CAPACITY

OPERATION AND MAINTENANCE PLAN

1. ALARM SHALL BE SET AT 3/5 OF TANK CAPACITY. 2. ACCESS TO TANK SHALL BE MAINTAINED AT ALL TIMES WHEN THE FACILITY IS BEING USED. 3. A LICENSED SEPTAGE HAULER SHALL BE CONTACTED WHEN THE ALARM IS ACTIVATED. 4. THE SEPTAGE HAULER SHALL INSPECT THE TANK FOR LEAKS OR ILLEGAL OUTLETS AT TIME OF PUMPING AND SHALL NOTIFY THE BOARD OF HEALTH OF ANY PROBLEMS. 5. THE SEPTAGE SHALL BE BROUGHT TO A MUNICIPAL TREATMENT PLANT LICENCED TO ACCEPT SEPTAGE, TREATED AND DISCHARGED INTO THE LOCAL RIVER. 6. THE ALARM SHALL BE INSPECTED AND TESTED EACH TIME THE TIGHT TANK IS PUMPED OUT.



SCHEDULE OF INVERTS BEG INVERTS PROP. AS-BUIL END INVERTS PROP. AS-BUIL 93.92 93.67

### DESIGN CALCULATIONS DESIGN CRITERIA:

DESIGN PERC RATE: 10 mpi LOADING RATE: 0.6 gpd/ft^2 DESIGN FLOW: (2 BEDROOM(s)) (110 gpd/BEDROOM) = 2200 gpdHOLDING TANK:

2000 gal REQUIRED - 2000 PROVIDED

# DESIGNER CERTIFICATIONS

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 Farteil Date 3/28

## SOIL TESTING RESULTS

### 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

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

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 ENGINEERS ONLY WARRANTY IS THE SYSTEM IS DESIGNED ACCORDING TO TITLE V UNLESS OTHERWISE NOTED.

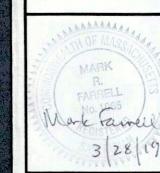
### LOCUS MAP

# PUMP NOTES

PUMP AND ALARM SHALL BE WIRED USING SEPARATE CIRCUITS. VISUAL AND AUDIBLE ALARM SHALL BE MOUNTED INSIDE DWELLING. ) PIPING FROM PUMP CHAMBER TO D-BOX SHALL BE 1.25 in SCH 40 PVC PIPE OR HDPE HEAVY DUTY WELL LINE PIPE. PIPE SHALL BE LAID TO DRAIN BACK TO TANK BETWEEN CYCLES. S) DISCHARGE PIPING SHALL HAVE ONE & in WEEP HOLE FOR DRAIN BACK AND A UNION INSTALLED FOR PUMP REMOVAL.

4) PUMP CHAMBER SHALL BE A LIBERTY PUMP 36in DIAMETER BY 48in HIGH FIBERGLASS PUMP CHAMBER. IT SHALL INSTALLED INSIDE THE EXISTING 500gal STEEL SEPTIC TANK. A 4in DIAMETER INLET, A 1.25in OUTLET AND 1in ELECTRICAL CONDUIT HOLE SHALL BE FIELD CUT WITH A HOLE SAW. ALL PENETRATIONS SHALL UTILIZE LIBERTY PUMP FACTORY SUPPLIED GROMMETS TO PROTECT INTEGRITY OF

S) SEWAGE PUMP SHALL BE A LIBERTY PRG101A 115V GRINDER PUMP WITH 2 IN NPT DISCHARGE. BUSHING SHALL BE INSTALLED 2ft ABOVE DISCHARGE TO REDUCE PIPE SIZE TO 1.25 IN DIAMETER. FLOAT SWITCH SHALL BE A MECHANICAL FLOAT SWITCH. IT SHALL BE SET AS SHOWN ON THE DRAWING DETAIL 6) NO SUBSTITUTIONS WITHOUT APPROVAL OF ENGINEER.

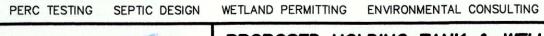


# **GREEN HILL**

STAKE OUT INFO

10 MAIN STREET STURBRIDGE, MA 01566 508-347-5226 (W) 508-347-9857 (F)

WORKING TO PROTECT OUR WATER RESOURCES





MAP 44 PARCEL 40

**ENGINEERING** 

CLIFF & JANICE GIBSON 40 GOODRICH RD STURBRIDGE MA 7 MARCH 2019

JOB: 2018-145