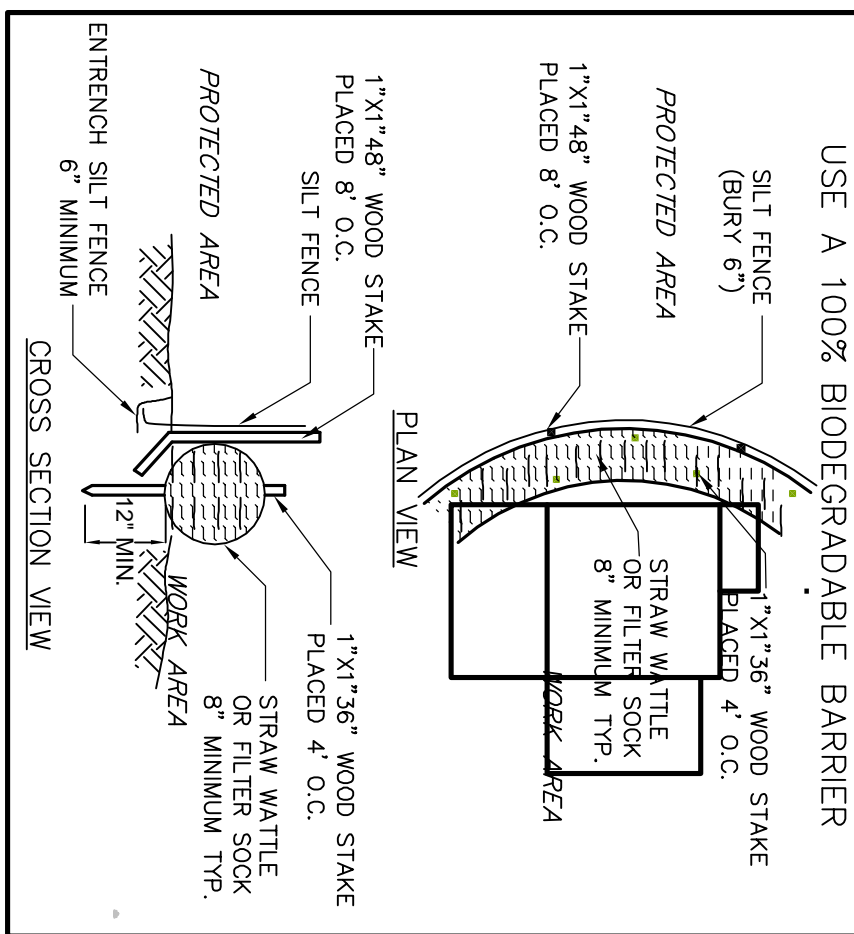


LEICESTER

EROSION CONTROL BARRIER

USE A 100% BIODEGRADABLE BARRIER

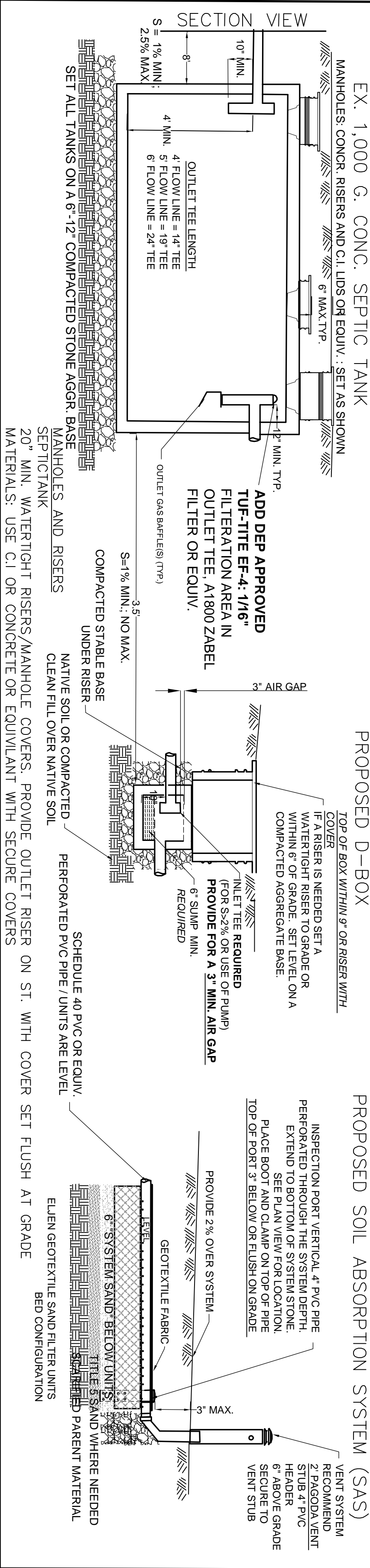


SIZING CALC'S

Hydraulic Loading:
2 BEDROOMS @ 1110 GPD = 220 GPD
This design does not allow for the use of a garbage grinder
OR water filtration backwash/discharge connection.
Septic Tank Size:
22,000 GPD @ 220% = 440 gal. MIN.
Leaching Area:
22,000 GPD @ 220% = 440 gal. MIN.
ELJEN GEOTEXTILE SAND FILTER UNITS
DESIGN LOADING RATE (LTAR) = 0.74 GPD/SF
USING GSF A42 BED CONFIGURATION
288 S.F. BASAL AREA MIN. 18 BEDD ELJEN UNITS
CONFIGURED AT 3 ROWS OF 6 ELJEN UNITS = 24 * 1 = 25
BED WIDTH 242 S.F. / 25 = 11.68' USE 12'
4.0' SPACING AND 20' LATERAL TO EDGE
1.0' SIDE EX. SAND BED/ 0.5' END EX. SAND BED

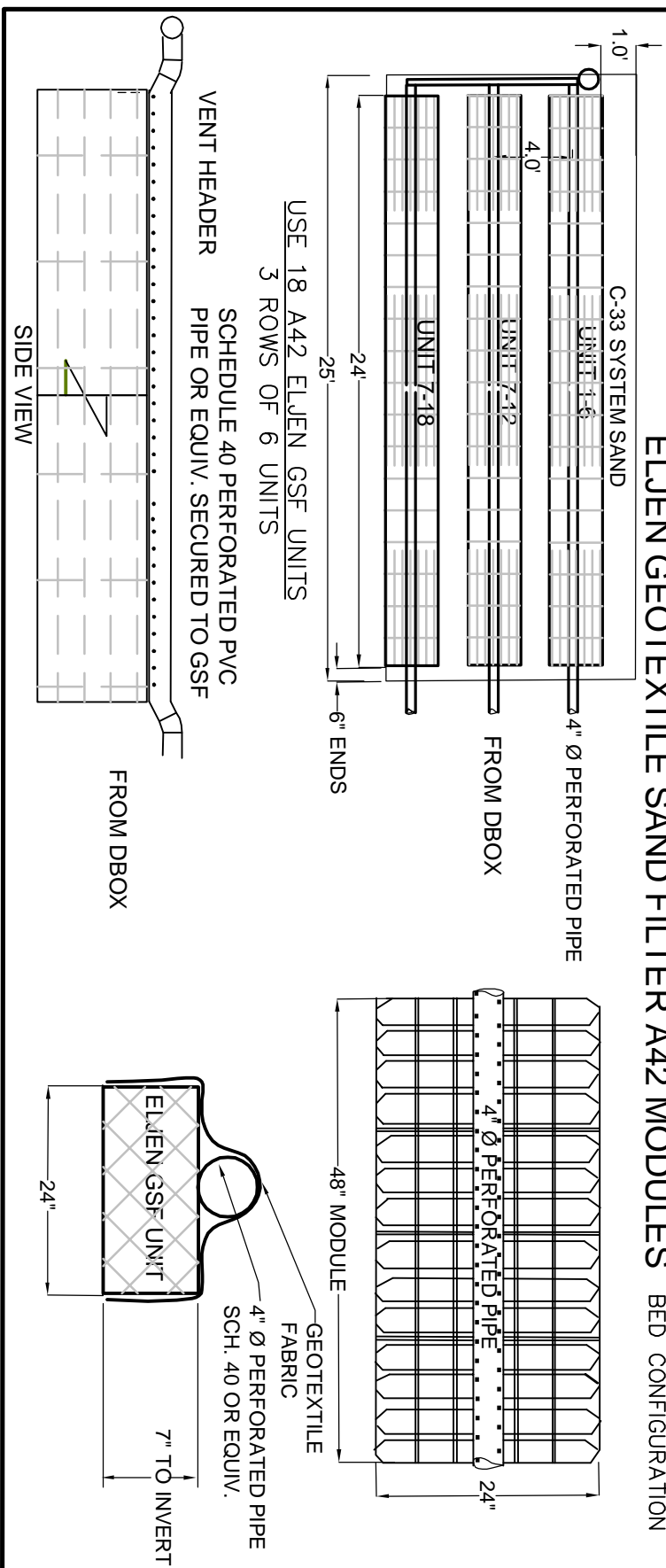
SYSTEM SCHEMATICS

PROPOSED D-BOX



PROPOSED SOIL ABSORPTION SYSTEM (SAS)

ELJEN MODULE & LAYOUT DETAIL



SCHEDULE OF ELEVATIONS

LOCATION	ELEVATION	FIN. GRADE
FOUNDATION INVERT OUT EX.	91.0 EX.	
SEPTIC TANKS INVERT IN EX.	90.8 EX.	92.6 MIN.; 94.8 MAX
SEPTIC TANKS INVERT OUT EX.	90.5 EX. VERIFY BEFORE INSTALLING SAS AND DB	
PUMP CHAMBER INVERT IN	NA	
PUMP CHAMBER INVERT OUT	NA	
DISTRIBUTION BOX INVERT IN	90.20	
DISTRIBUTION BOX INVERT OUT	90.00	91.3 MIN.; 94.0 MAX
HIGHEST CONTOUR AT SAS	92.7	
INVERT PERF. PIPE /TOP OF UNITS	89.80	
BOTTOM OF UNITS	89.20	90.8 MIN.; 92.8 MAX
BOTTOM OF SYSTEM SAND	88.70	
ESTIMATED SEASONAL HIGH WATER	86.70	
BREAKOUT AT 15'	90.30	

SOIL EVALUATION DATA & PERC TEST

SOIL EVALUATOR: LIZ DUPERE WITNESSED BY: SHELLY HULTGREN DATE: 7/11/23 APPLICANT: TONI MANDEL TEST #1 # 7 EL. 92.7	0'-32" FILL 32'-46" B L.S 10R 6/6 46'-96" C L.S 2.5R 5/4 MISCELL. 7.5R 6/8 GROUND WATER ELEV. (OBSERVED) 72' MOISTURE ELEV. (OBSERVED) 72' PERCULATON TEST DATA SOIL EVALUATOR: LIZ DUPERE WITNESSED BY: SHELLY HULTGREN DATE: 7/11/23 APPLICANT: TONI MANDEL TEST #1 # 7 EL. 92.7	0'-32" FILL 32'-46" B L.S 10R 6/6 46'-96" C L.S 2.5R 5/4 MISCELL. 7.5R 6/8 GROUND WATER ELEV. (OBSERVED) 72' MOISTURE ELEV. (OBSERVED) 72' PERCULATON TEST DATA SOIL EVALUATOR: LIZ DUPERE WITNESSED BY: SHELLY HULTGREN DATE: 7/11/23 APPLICANT: TONI MANDEL TEST #1 # 7 EL. 92.7
--	---	---

GENERAL NOTES

- REGULATIONS**
 - This design is in accordance with the latest edition of Commonwealth of Massachusetts regulations 310 CMR 15.000 Title 5, of the State Environmental Code and the requirements of the local Board of Health, unless noted.
 - The contractor is responsible to comply with all inspections and material requirements of Title 5 and have a valid installer's license.
- CHANGES**
 - Variation from this plan shall be made only with the review and approval from the Engineer and BOH. CONTRACTOR IS REQUIRED TO FOLLOW THE PLAN AND TO MAINTAIN COMPLIANCE WITH REQUIREMENTS OF 310 CMR 15.000 TITLE 5.
 - The Design Engineer is to be notified of any discrepancies.
- EXCAVATION & BACKFILLING**
 - In excavation of the disposal system distribution area care must be taken to not compact or smear the bottom or sides of the excavation.
 - All work should be done in favorable weather conditions, but in NO case shall fill or stone be placed on wet, smeared or frozen soils.
 - It is the responsibility of the contractor to contact DIG SAFE before operating machinery on this property.
- GENERAL NOTES**
 - All known wells and wetlands and water courses within 100' of the septic system are shown or noted.
- INSPECTIONS**

The **CONTRACTOR** shall notify the Engineer and the local Board of Health at least 24 HOURS PRIOR TO STARTING and to coordinate the following inspections (unless otherwise notified):

 - At completion of the SAS excavation
 - completion of component installation. All pipes and components must be VISIBLE, magnetic tape in place AND BREAKOUT GRADING IN PLACE and 3) after backfilling system and components with final grade, with loam and stabilization complete.
- WARRANTY**

The Design Engineers warranty is that the system is designed according to Title 5 and Local Board of Health regulations unless otherwise noted, which would require a variance or local upgrade approval. The intent of this plan is for the septic system design proposal only (which may or may not include the siting of a well). No certification is made with regard to zoning, property line, structure placement or location or retaining walls. Owner is responsible for all permit acquisitions, RLS or PE requirements or certifications and variance or local upgrade requests.

CLEAR WATER ENVIRONMENTAL
PROPOSED SEPTIC SYSTEM REPAIR

SEPTIC SYSTEM DESIGN | LAND PLANNING

APPLICANT
TONI MANDEL
48 LAKE DRIVE
LEICESTER, MA 01524

CONTACT
TONI MANDEL
508-868-6746

2. BEDROOM SFH
48 LAKE DRIVE
LEICESTER, MASSACHUSETTS
PROPOSED SEPTIC SYSTEM REPAIR

ELIZABETH DUPERE CIVIL
ENGINEER RSH1210

87 Bartlett Road
Kittery Point
Maine 03905

(508) 868-0838
info@clearwater-env.com

Serving Greater MA Since 1999

LOT SIZE
5,096± S.F.

BENCHMARK
NAIL IN U. POLE 16
EL. 110.16 (ASSUMED)

APPLY MAGNETIC TAPE OVER BURIED PIPES AND COMPONENTS

48 LAKE DR (27A B4) 1 OF 1