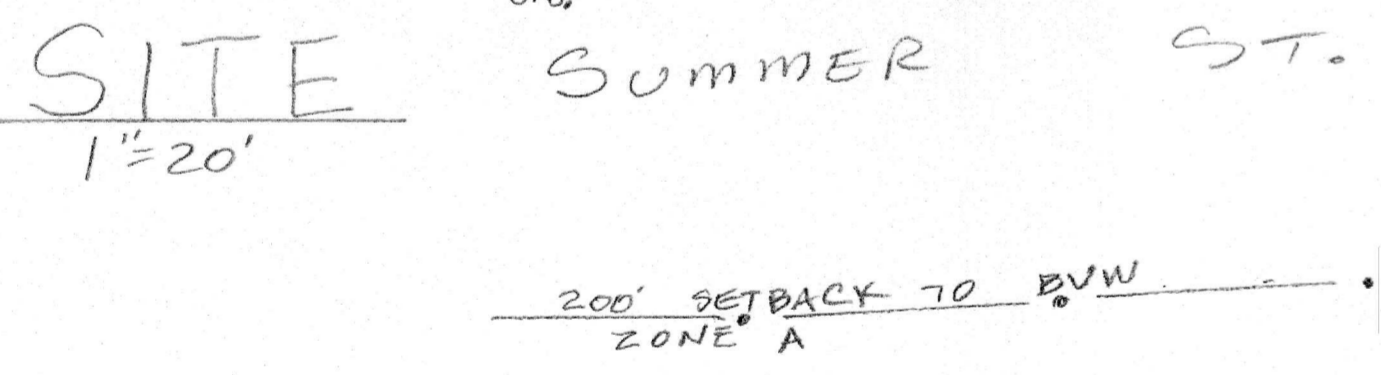
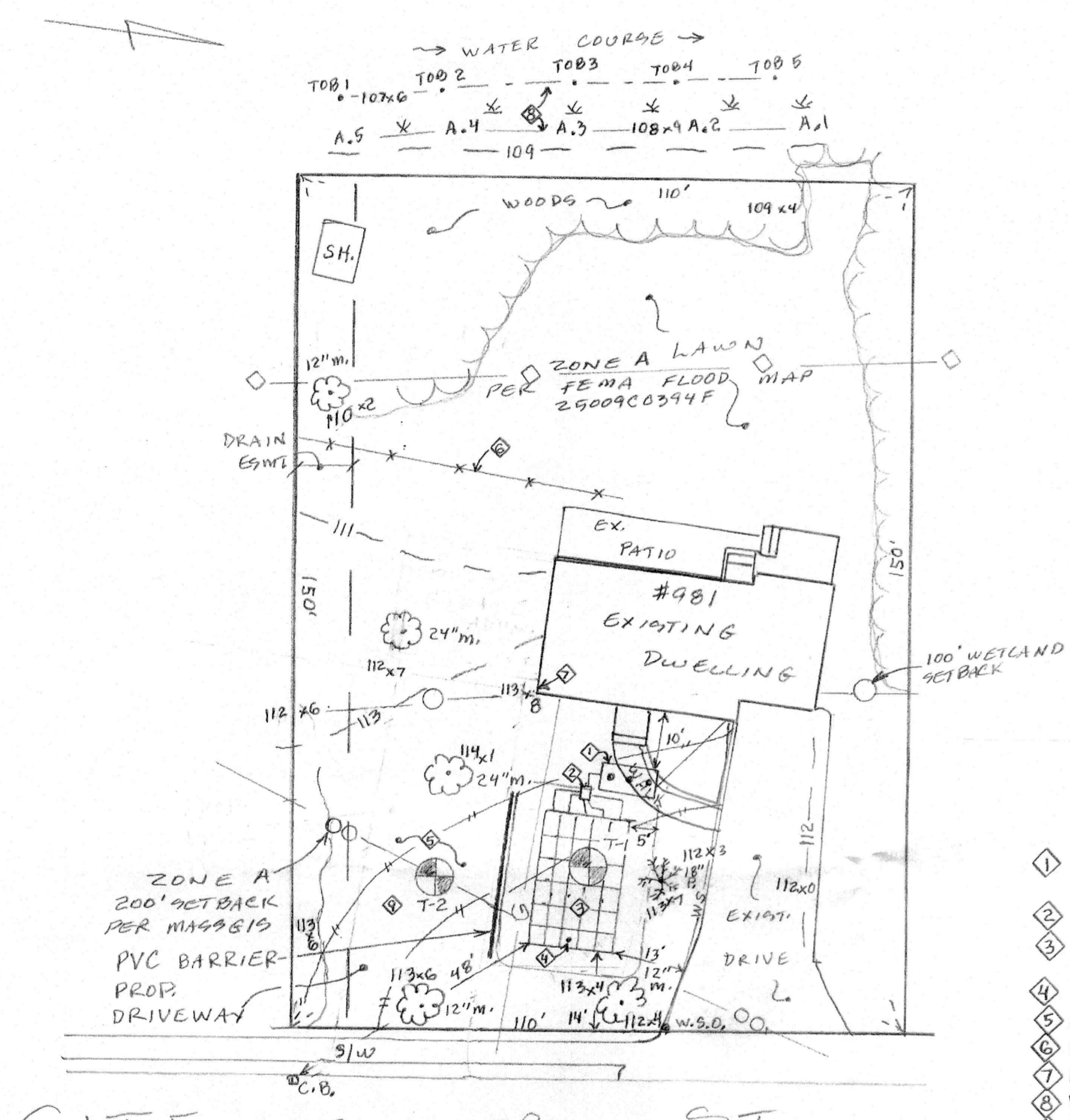


**LEGEND:**

EXISTING	PROPOSED		
---72---	72	SURFACE CONTOUR	
72.3	71X7	SPOT ELEVATION	
⊕		DEEP SOIL OBSERVATION TEST	
⊗		PERCOLATION TEST	
⊙ 10" OAK		PROMINENT TREE, DIA. & SPECIES	
B.M. #3 ▲		ELEVATION BENCH MARK & NO.	
—WS—		WATER SERVICE	



**Quick4 Plus Series**  
Quick4 Plus Standard Low Profile Chamber

**INFILTRATOR WATER TECHNOLOGIES, LLC (INFILTRATOR)**  
INFILTRATOR WATER TECHNOLOGIES, LLC (INFILTRATOR) warrants the structural integrity of each chamber, endcap, 12" deep expansion polystyrene and/or polypropylene manifold and any other accessory manufactured by Infiltor's design and operated as a household or commercial septic system in accordance with Infiltor's instructions. It is warranted to the original purchaser that Infiltor's product selection materials and components for one year from the date that the specific permit is issued for the septic system containing the LWS provided, however, that a specific permit is not required to operate the septic system. The warranty period will begin from the date that the septic system is installed. To exercise its warranty rights, Infiltor must be notified in writing of the alleged defect. Infiltor will supply replacement units for units determined by Infiltor to be covered by this Limited Warranty. Infiltor's liability specifically excludes the cost of removal and/or installation of the LWS.

**INFILTRATOR**  
Infiltrator Water Technologies, LLC  
4000 Park Road  
P.O. Box 700  
Old Saybrook, CT 06475  
860-577-7400  
800-221-4436  
www.infiltratorwater.com

**SHEA** New England's Premier Precast Concrete Products  
1500 GALLON SEPTIC TANK  
MONOLITHIC 3" WALL

**NOTES:**

- CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
- CONSTRUCTION OF SEPTIC TANK CONFORMS WITH 310 CMR SECTION 15.00 DEP TITLE 5 REGS.
- ALL REINFORCEMENT PER ASTM C1227.
- BAFFLE WALL OPTIONAL FOR TWO COMPARTMENT TANKS.
- TEES AND GAS BAFFLE SOLD SEPARATELY.
- TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN.
- IF COVER EXCEEDS 4 FEET, HEAVY DUTY TANK REQUIRED. ALSO AVAILABLE IN WASH-TO HS-20 LOADING.

**INFILTRATOR WATER TECHNOLOGIES, LLC**  
1732 Salem Street, Lynnfield, MA 01903  
187 Hawthorn Road, Amesbury, MA 01830  
180 Old Turnpike Rd., Hattingsen, NH

- NOTES:**
- UNLESS OTHERWISE SPECIFIED, SYSTEM CONSTRUCTION SHALL CONFORM TO TITLE 5 OF THE STATE ENVIRONMENTAL CODE OR LOCAL BOARD OF HEALTH REGULATIONS, WHICHEVER IS MORE STRINGENT.
  - ALL WORK ON LINES, GRADES AND DETAILS SHALL BE DONE BY A LICENSED DISPOSAL WORKS INSTALLER.
  - ANY INTENDED REVISION OF PROPOSED ELEVATIONS AND/OR HORIZONTAL LOCATIONS AS SHOWN SHALL BE APPROVED BY THE ENGINEER AND HEALTH AGENT PRIOR TO IMPLEMENTATION.
  - PROPERTY LINES SHOWN ARE APPROXIMATE. REFERENCE PLAN IS PLAN OF LAND BY PFS LAND SURVEYING, INC., DATED 9/1/2021, A COPY OF WHICH IS SUBMITTED WITH THIS PLAN.
  - THE CONTRACTOR SHALL NOTIFY THE PROPER INSPECTORS AND ALLOW SUCH TIME AS REQUIRED FOR INSPECTIONS.
  - SAFETY MEASURES, DAY-TO-DAY CONTROL OF WORK AND CONSTRUCTION METHODS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - THE ISSUANCE OF A PERMIT TO CONSTRUCT OR A CERTIFICATE OF COMPLIANCE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE DISPOSAL SYSTEM WILL FUNCTION SATISFACTORILY.
  - THE CONTRACTOR SHALL NOTIFY "DIG-SAFE" AT 1-800-322-4844 AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - ALL PIPE JOINTS SHALL BE MADE WATERTIGHT PER 222(3) & (4).
  - THE BUILDING SEWER SHALL BE LAID ON A COMPACTED FIRM BASE PER 222(5). THE BUILDING SEWER SHALL BE LAID ON A CONTINUOUS GRADE IN A STRAIGHT LINE PER 222(7).
  - A 24" CHILDPROOF RISER/MANHOLE WITHIN 6" OF FINAL GRADE SHALL BE PLACED OVER THE OUTLET END OF THE SEPTIC TANK.
  - IF PLACED IN FILL PROPER COMPACTION IS REQUIRED UNDER COMPONENTS PER 221(2). A SIX INCH CRUSHED STONE BASE IS TO BE PLACED UNDER COMPONENTS.
  - SEPTIC TANK AND DISTRIBUTION BOX SHALL HAVE A MINIMUM 9" AND MAXIMUM 36" OF COVER PER 221(7) AND 228(1).
  - SEPTIC TANK AND DISTRIBUTION BOX ARE TO BE CONSTRUCTED AT THE SAME ELEVATION PER 232(3)(B), AND LAID LEVEL FOR THE FIRST TWO FEET PER 232(3)(B).
  - FILL MATERIAL SHALL BE COMPRISED OF CLEAN, GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES PER 255(3). MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOILS SHALL NOT BE USED.
  - PROVIDE MINIMUM 0.02FT/FT GRADE SLOPE OVER LEACH SYSTEM PER 240(10).
  - THERE SHALL BE A 3" SPACE BETWEEN TOPS OF TEES AND INSIDE OF TANK PER 227(4). TEES MUST EXTEND 6" ABOVE FLOWLINE PER 227(1). INLET TEE MUST EXTEND 10" BELOW FLOWLINE PER 227(6). OUTLET TEE MUST EXTEND 14" BELOW FLOWLINE PER 227(6). INSTALL ZABBEL OUTLET FILTER OR EQUIVALENT ON OUTLET TEE. ANNUAL MAINTENANCE OF THE FILTER IS REQUIRED. TEES MUST EXTEND TO CENTER OF ACCESS PORTS.
  - SEPTIC TANK AND DISTRIBUTION BOX SHALL BE MANUFACTURED BY INFILTRATOR SYSTEMS, INC. APPROVED FOR GENERAL USE UNDER TRANSMITTAL NUMBER X228042 BY THE MASS. DEPARTMENT OF ENVIRONMENTAL PROTECTION. ALL INSTALLATION SHALL COMPLY WITH MANUFACTURER'S REQUIREMENTS. AN INSPECTION PORT SHALL BE PROVIDED PER MANUFACTURER'S AND BOARD OF HEALTH REQUIREMENTS.
  - PROVIDE 6 INCH CRUSHED STONE BASE BENEATH SEPTIC TANK AND DISTRIBUTION BOX.
  - MAGNETIC MARKING TAPE IS TO BE PROVIDED OVER SYSTEM COMPONENTS.
  - THIS PLAN IS DESIGNED IN CONFORMANCE WITH 310CMR 15.00 (TITLE 5).
  - SYSTEM DOES NOT APPEAR TO LIE WITHIN A NITROGEN SENSITIVE AREA AS DESIGNATED BY 310CMR 15.215.
  - THERE ARE NO SURFACE WATER SUPPLIES WITHIN 400', NO PUBLIC WELLS WITHIN 400', AND NO PRIVATE DOMESTIC WELLS WITHIN 125' OF SEPTIC SYSTEM BASED ON VISUAL INSPECTION.
  - THE PREVIOUS DSCP WAS FOR 3 BEDROOMS BEDROOMS. THE DESIGN IS FOR THREE BEDROOMS.

**DESIGN CRITERIA**

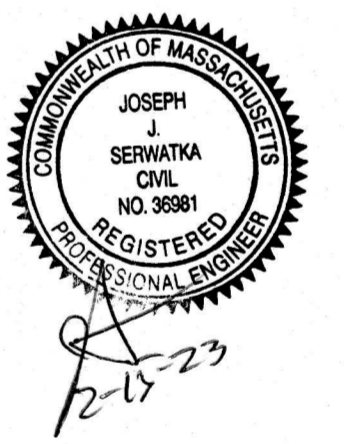
Building Use: single family dwelling  
 Number of Bedrooms: 3 Design No. of People: 6  
 Design Flow: 110 gpd/bdrm. Total Daily Flow: 330 gals.  
 No Garbage Grinder Allowed  
 Design Percolation Rate: sieve analysis  
 Leach Area Requirements: 0.66gals/sf  
 Total Area Required: 500 S.F.  
 Total Area Provided: 568 S.F.  
 4.73 SF/LF x 24' x 5 = 568 S.F.

**Soil Data**  
 9/15/21  
 Witness: Leo Cormier  
 By: Joseph J. Serwatka, P.E.

T-1 (98.5')	T-2 (98.5')
0-30" fill	0-30" fill, old system
36-72" fill	36-72" fill
72-80", C, msand, 2.5Y6/4	72-80", Ab, fs, 10YR2/2
e.s.h.w.t. = 72"	80-120", C, msand, 2.5Y6/4

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Joseph J. Serwatka, P.E.  
 Post Office Box 1016  
 North Andover, MA 01845  
 978-314-8731



- Proposed 1,500 gal. 2-comp. H-20 mono. septic tank (pump and remove existing tank)
- Proposed H-20 6-outlet distribution box
- Proposed quick 4 LP field, 5 wide by 6 long, w/5' soil repl. (install for H-20 loading per manufacturer specs)
- Proposed inspection port
- Existing system
- Proposed erosion control
- Benchmark: bottom of siding, el.-115.0'
- Wetlands by Julie Vondrak
- Proposed driveway

**Variance Request:**  
 To allow system within 175' of tributary to water supply where 200' is required. Entire lot is essentially in zone A.  
 To allow system to be 48' from catchbasin that is tributary, where 100' is required.  
 To allow sieve analysis in lieu of perc test as allowed by DEP policy, due to fill.

**Note:** 100 year flood elevation is 113 feet based on town study.

**TUF-TITE** 7-Hole Distribution Box 7HD2

**INSTALLATION IS JUST THIS SIMPLE:**

- Position the Distribution Box on level virgin soil. Do not place box on a concrete slab.
- Install the inlet pipe and outlet pipes. Be sure the bottoms of all pipes rest on virgin soil.
- Level the Distribution Box and all pipes as needed.
- Backfill the pipes to within top of the Distribution Box. Recheck the level of the box, then backfill up to the top lid edge.
- Install and adjust Tuf-Tite Speed Levelers.
- Place lid on the Distribution Box and finish backfilling.

**Choice of Fittings:** S-35 Pipe Seal, S-35 Sewer and Drain, S-40 Pipe Seal, S-40 The Wall, S-40 10 LB. Crush, S-40 Schedule 40, S-40 Compugrip, P-10 Plug, for unused holes.

**Tuf-Tite Speed Levelers™:** Control the flow of effluent from the Distribution Box. Simply insert a Speed Leveler into each outlet pipe. Rotate each Speed Leveler so the flow is distributed as desired. Available for 3" or 4" PVC pipe.

**Versatile Options:** Drain Grate, Stack, 16" x 16" HDPE grate, ADA compliant. Can be affixed to Box or Floor with stainless corner screws. 6" Riser, Stackable 16" x 16" HDPE Floor provides 6" elevation to the Box or Floor. Ribbed for added rigidity.

**TUF-TITE** Drainage and Septic Products  
 Tuf-Tite Corporation  
 1200 Flux Court  
 Lake Zurich, Illinois 60057

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise, and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated on the attached soil evaluation form, are accurate and in accordance with 310 CMR 15.000 through 15.107.

Certified Soil Evaluator: [Signature]  
 Date: 1-15-23

NO.	BY	APP.	DATE	REVISION DESCRIPTION
1	JJS		2-10-23	CONS. COMM.

DESIGN: JJS  
 DRAWN:  
 CHECKED:  
 SCALE: AS SHOWN  
 DATE: 1-15-23

**SEWAGE DISPOSAL SYSTEM  
 SITE PLAN AND PROFILE**

981 SUMMER STREET (map 46, lot 1993)  
 LYNNFIELD, MA

PREPARED FOR: 981 SUMMER STREET LLC

SHEET 1 OF 1  
 JOB NO.