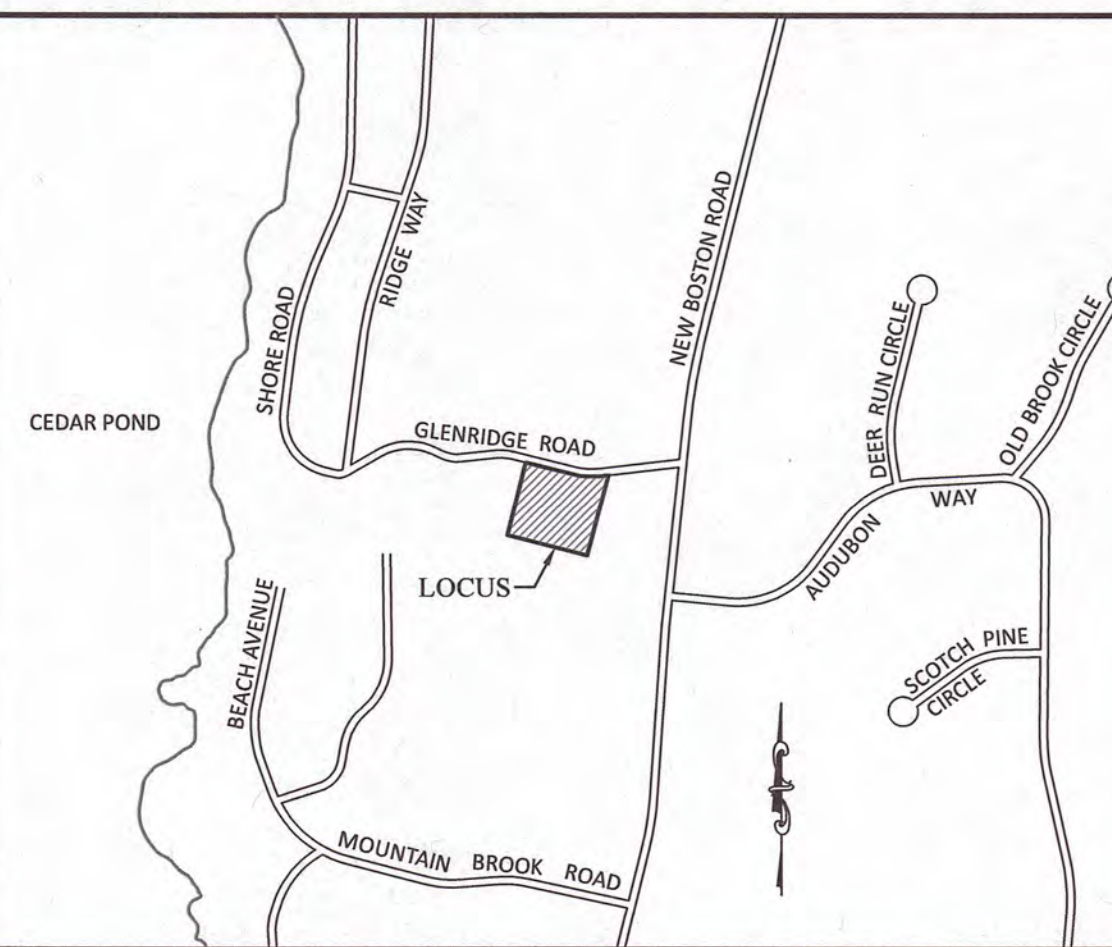
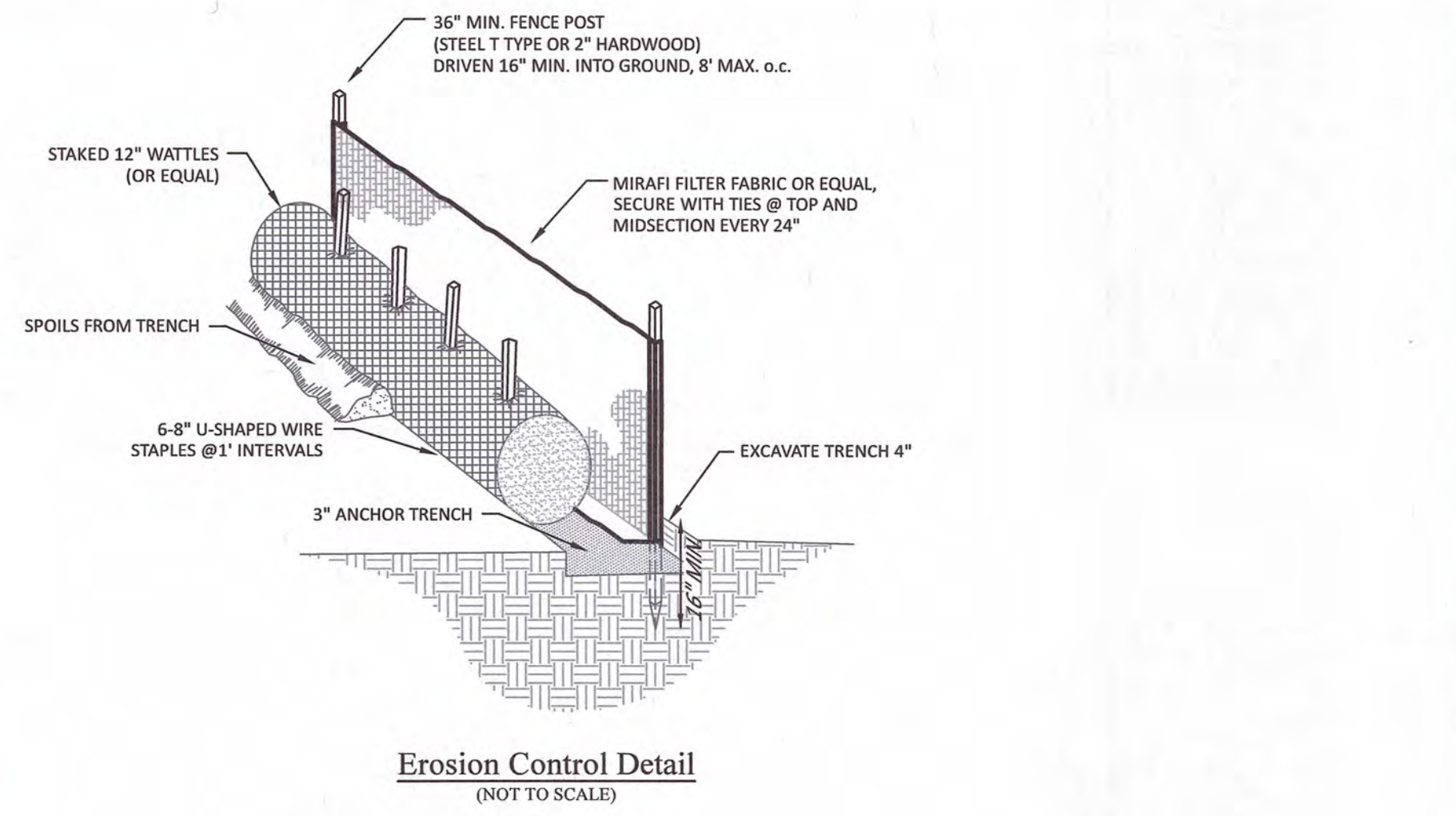


TOWN OF STURBRIDGE

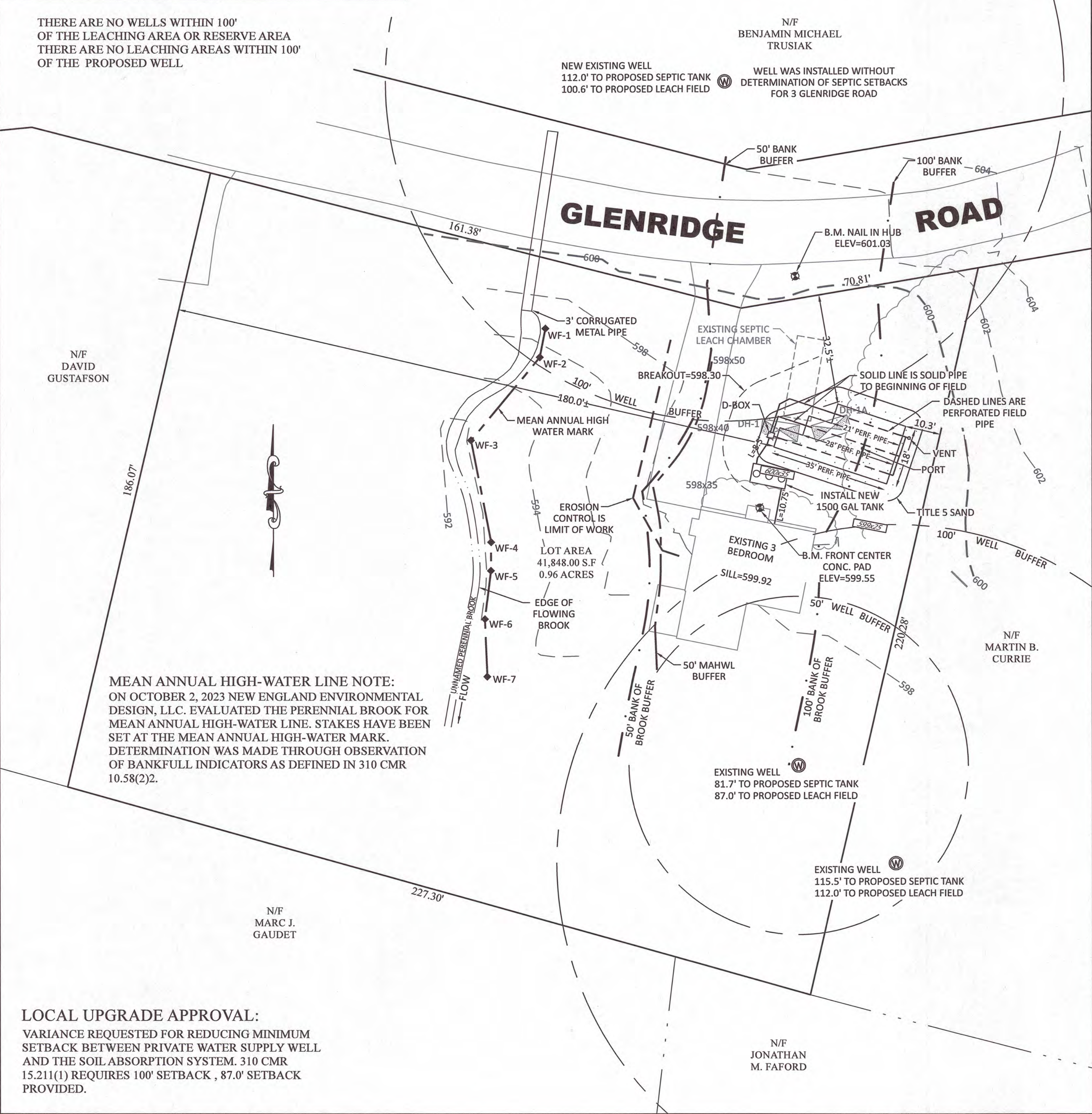
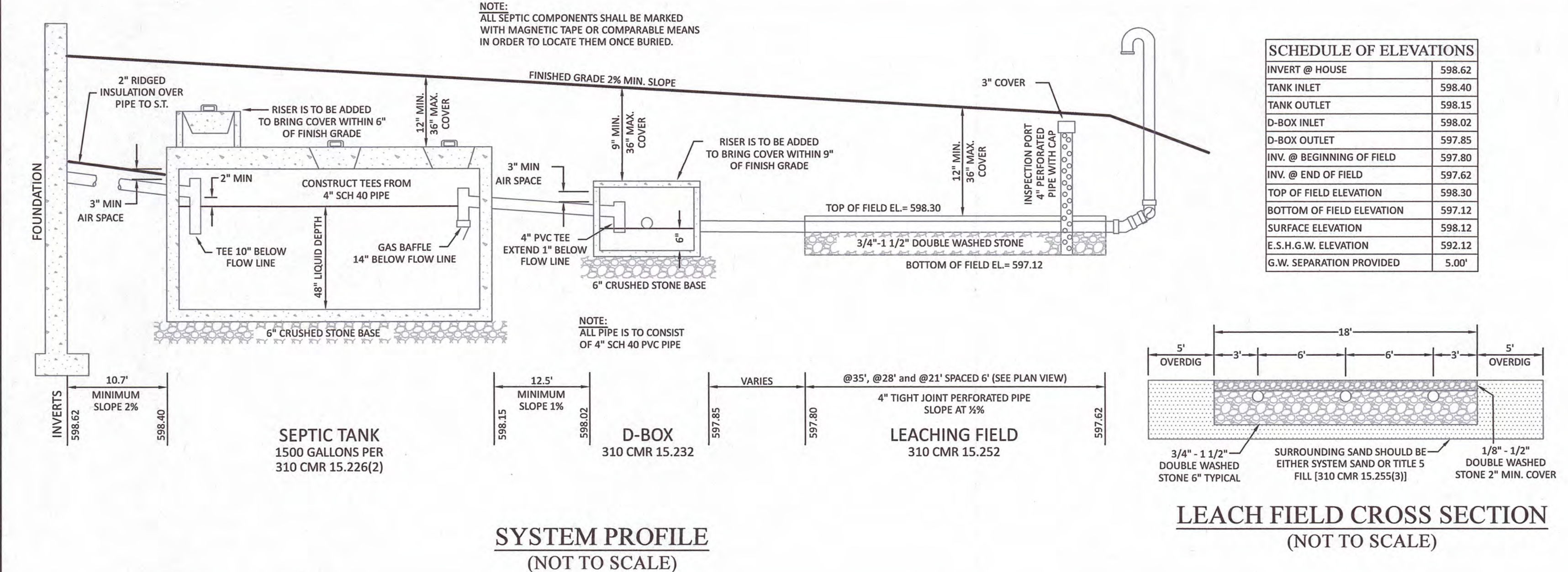


LOCUS MAP - (NOT TO SCALE)

THERE ARE NO WELLS WITHIN 100' OF THE LEACHING AREA OR RESERVE AREA
THERE ARE NO LEACHING AREAS WITHIN 100' OF THE PROPOSED WELL.



Erosion Control Detail (NOT TO SCALE)



MEAN ANNUAL HIGH-WATER LINE NOTE:
ON OCTOBER 2, 2023 NEW ENGLAND ENVIRONMENTAL DESIGN, LLC. EVALUATED THE PERENNIAL BROOK FOR MEAN ANNUAL HIGH-WATER LINE. STAKES HAVE BEEN SET AT THE MEAN ANNUAL HIGH-WATER MARK. DETERMINATION WAS MADE THROUGH OBSERVATION OF BANKFULL INDICATORS AS DEFINED IN 310 CMR 10.58(2)2.

- ### GENERAL NOTES
- ALL MODIFICATIONS TO THIS PLAN MUST BE PREAPPROVED IN WRITING BY THE DESIGN ENGINEER AND THE LOCAL BOARD OF HEALTH. ALL MODIFICATIONS MADE WITHOUT APPROVAL FROM THE DESIGN ENGINEER OR THE LOCAL BOARD OF HEALTH ARE THE SOLE RESPONSIBILITY OF THE SITE CONTRACTOR.
 - ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM WITH THE REQUIREMENTS OF THE LOCAL BOARD OF HEALTH AND THE STATE ENVIRONMENTAL CODE TITLE 5.
 - THE CONSTRUCTION OF PERMANENT STRUCTURES UPON THE DISPOSAL SYSTEM OR RESERVE AREA IS NOT ALLOWED.
 - TO OBTAIN A CERTIFICATE OF COMPLIANCE, THREE INSPECTIONS WILL BE REQUIRED BY THE DESIGN ENGINEER:
 - BOTTOM INSPECTION FOLLOWING THE EXCAVATION OF TOPSOIL & SUBSOIL.
 - FOLLOWING THE INSTALLATION OF THE SYSTEM COMPONENTS PRIOR TO BACKFILL.
 - FINAL GRADING.
 - MACHINERY THAT MAY CRUSH OR DISTURB THE PIPE SHALL NOT BE ALLOWED ON THE DISPOSAL AREA.
 - THIS SYSTEM WAS NOT DESIGNED TO FACILITATE A GARBAGE DISPOSAL.
 - TOPSOIL, SUBSOIL, PEAT, FILL, AND OTHER IMPERVIOUS MATERIALS SHALL BE REMOVED FROM ALL AREAS WITHIN THE LEACHING FACILITY AND FOR A DISTANCE OF 5 FEET IN ALL DIRECTIONS THEREFROM.
 - WHERE A SEWAGE DISPOSAL SYSTEM IS TO BE CONSTRUCTED IN FILL, THE FILL SHALL BE PLACED AND COMPACTED IN NO GREATER THAN 12 INCH LIFTS OR ALLOWED TO SETTLE FOR A MINIMUM OF ONE YEAR. THE FILL MATERIAL MUST CONFORM WITH THE REQUIREMENTS OF THE LOCAL BOARD OF HEALTH AND STATE ENVIRONMENTAL CODE TITLE 5, SECTION 15.255
 - TITLE 5 SAND CERTIFICATE MUST BE SUBMITTED TO THE BOARD OF HEALTH AND THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.
 - THE BASE FOR THE SEPTIC TANK, PUMP CHAMBER, AND DIST. BOX MUST BE COMPACTED BY A VIBRATORY TAMPER.
 - INTERIOR PLUMBING SHALL BE CONNECTED TO THE PROPOSED SEPTIC SYSTEM WITH THE EXCEPTION OF WATER SOFTENERS AND/OR WATER CONDITIONING SYSTEMS.
 - WELLS WITHIN 100' OF THE PROPOSED SEPTIC SYSTEM ARE SHOWN.
 - APPLICABLE STATE AND LOCAL PERMITS SHALL BE ACQUIRED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
 - CONSERVATION APPROVAL MAY BE REQUIRED IF ANY PROPOSED ALTERATION IS LOCATED WITHIN 100' OF A RESOURCE AREA.
 - ALL SEPTIC COMPONENTS SHALL BE MARKED WITH MAGNETIC TAPE OR COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.
 - IT IS RECOMMENDED THAT NEW ENGLAND ENVIRONMENTAL DESIGN, LLC. IS RETAINED TO STAKE OUT THE PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM IN THE PROPOSED LOCATION AND VERIFY THE ELEVATION OF THE PROPOSED DESIGN.

SOIL EVALUATION

SOIL EVALUATOR: JULIAN P. VOTRUBA SE# 2519 - WITNESSED BY: KENNETH B. LACEY, JR. - DATE PERFORMED: 7-19-2023

DEEP HOLE-1 ELEVATION=598.12					DEEP HOLE-1A ELEVATION=598.10						
DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER (STRUCTURES, STONES, BOULDERS, CONSISTENCY, & % GRAVEL)	DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER (STRUCTURES, STONES, BOULDERS, CONSISTENCY, & % GRAVEL)
0-3"	FILL					0-3"	FILL				
3-72"	FILL					3-72"	FILL				
72-76"	B	FSL	10Y 3/4	10YR 6/1 @ 72"	FRIABLE	72-76"	B	FSL	10Y 3/4	10YR 6/1 @ 72"	FRIABLE
76-125"	C	SAND/ GRAVEL	2.5Y 5/4		LOOSE	76-125"	C	SAND/ GRAVEL	2.5Y 5/4		LOOSE

DEEP HOLE-2 ELEVATION=			DEEP HOLE-2A ELEVATION=		
DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER (STRUCTURES, STONES, BOULDERS, CONSISTENCY, & % GRAVEL)

PARENT MATERIAL	GLACIAL TILL	PERCOLATION TESTS
DEPTH TO BEDROCK	>125"	A SIEVE ANALYSIS WAS PERFORMED BY YANKEE ENGINEERING & TESTING, INC. AS PROJECT# 25056. RESULTS MAY BE FOUND IN A LETTER REPORT DATED JULY 24, 2023.
STANDING WATER IN HOLE	N/A	TEXTURAL CLASS IS "CLASS 1", "SAND".
WEEPING FROM PIT FACE	72"	
E.S.H.G.W. DEPTH	72" BELOW	

I CERTIFY THAT ON 6/94 I HAVE PASSED THE SOIL EVALUATOR EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ANALYSIS WAS PERFORMED BY ME CONSISTANT WITH THE REQUIRED TRAINING, EXPERTISE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.017

SIGNATURE: *Julian P. Votruba* DATE 7-19-2023

DESIGN DATA

TYPE OF BUILDING: SFH NO. OF BEDROOMS/EMPLOYEES: 3
NO GARBAGE GRINDER (DISPOSAL) ALLOWED
DESIGN PERCOLATION RATE: 2 MPI LTAR: .74
DAILY FLOW: 3x110=330

REQUIRED LEACHING AREA
DESIGN FLOW / LTAR: 330/0.74=445.9 S.F.
TOTAL LEACHING AREA = (L x W)
(21' + 28' + 35') x 6' = 504 S.F.
TOTAL DESIGN FLOW = LEACHING AREA x LTAR
504 x 0.74 = 372.96 G.P.D.
DESIGN FLOW >= DAILY FLOW
372.96 >= 330

LOCUS

ASSESSOR'S REFERENCE	308 21E43 003
W.D.R.D. REFERENCE	BOOK 65971 PAGE 106
PLAN REFERENCE	BOOK 486 PAGE 97
OWNER OF RECORD	KRISTEN J. GUERRA
LATITUDE, LONGITUDE	42.12341, -72.08299

ZONING REQUIREMENTS

ZONING DISTRICT	SUBURBAN RESIDENTIAL DISTRICT	FRONT SETBACK	30 FEET
MIN. LOT AREA	32,670 S.F.	SIDE SETBACK	15 FEET
MIN. FRONTAGE	125 FEET	REAR SETBACK	15 FEET

THE WORK PROPOSED SHOWN DOES NOT LIE WITHIN A FLOOD PLAIN AS SHOWN ON THE FLOOD INSURANCE RATE MAP (F.I.R.M.) COMMUNITY PANEL NUMBER 25027C0927 DATED 6/21/2023.

REPAIR SUBSURFACE SEWAGE DISPOSAL SYSTEM

CONTRACTOR TO VERIFY ACTUAL LOCATION OF EXISTING UTILITY SERVICES IN THE FIELD PRIOR TO CONSTRUCTION.

TYPICAL LEGEND

IRON PIPE	Ø	EXIST. CONT. MAJ.	---	WELL LOCATION	⊙
CONCRETE BOUND	□	EXIST. CONT. MIN.	---	PERC. TEST	⊗
BOUNDARY LINE	---	PROP. CONT.	---	DEEP HOLE	⊠
ABUTTER LINE	---	WETLAND LINE	---	BENCHMARK	⊕
EASEMENT LINE	---	WETLAND BUFFER	---	DRAINAGE LINE	---
SETBACK LINE	---	EROSION CONTROL	---	DRAIN MANHOLE	⊕
STONEWALL	---	PAVEMENT EXIST.	---	CATCH BASIN	⊕
TREE LINE	---	PAVEMENT PROP.	---		

PREPARED FOR: JOSEPH GUERRA
3 GLENRIDGE ROAD
STURBRIDGE, MA. 01566

PROPERTY ADDRESS: 3 GLENRIDGE ROAD
STURBRIDGE, MA. 01566

GRAPHIC SCALE

(IN FEET)
1 INCH = 20 FEET

REVISIONS

REV	DATE	COMMENT	BY
1	10/3/2023	ADDED FLAGS AND MEAN ANNUAL HIGH WATER LINE	ZTM
2			
3			
4			

Environmental Consultants Civil Engineering Consultants Land Surveying Consultants
P.O. Box 376 Rutland, MA 01543 Ph: (508) 829-7222 needit@hotmail.com

DATE: 8/25/2023 SCALE: 1"=20' SHEET: 1 OF 1 JOB#: 1974-23