NOTES:

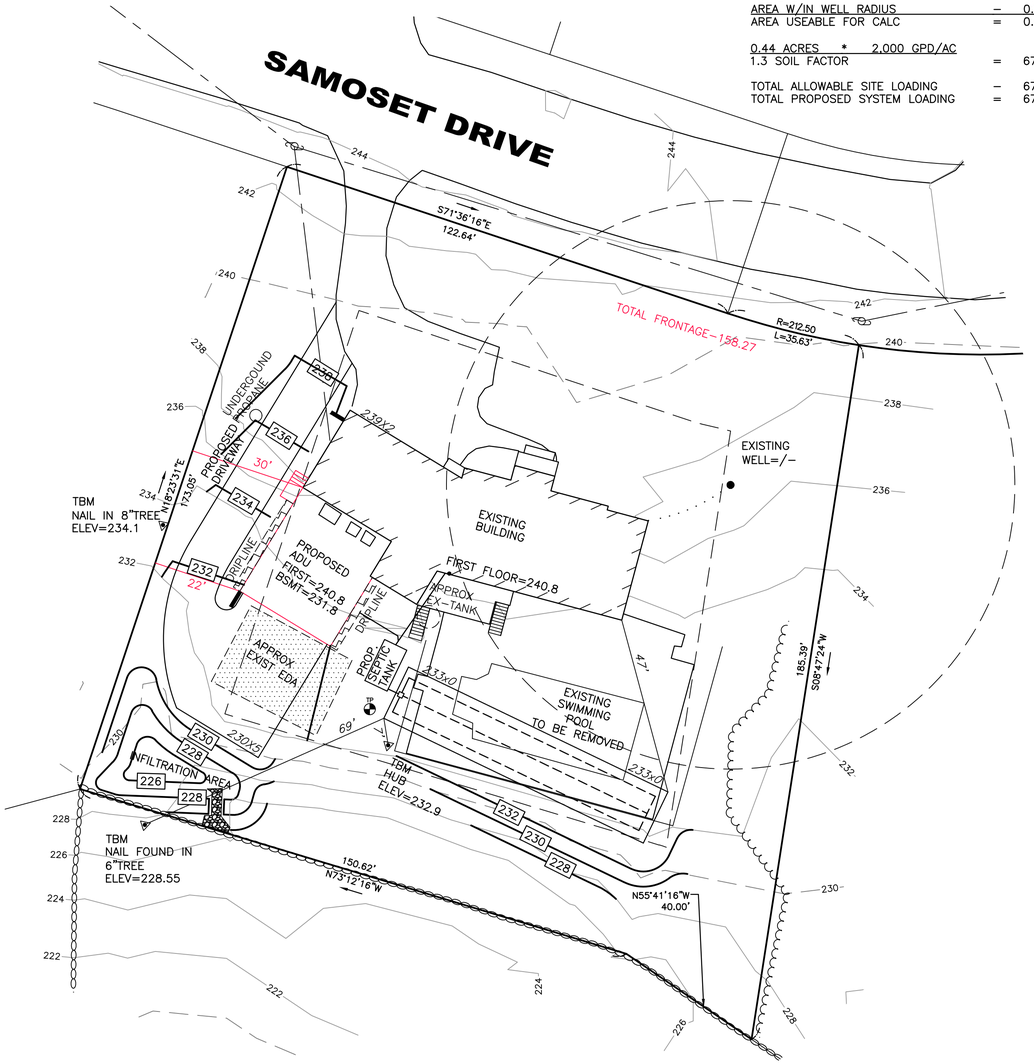
1. PURPOSE OF THIS PLAN IS TO DESIGN A SEPTIC SYSTEM (PIPE & STONE) THAT MEETS CURRENT NHDES AND LOCAL REGULATIONS FOR THE EXISTING 3 BEDROOM HOME W/ A 1 BEDROMM ACCESSORY DWELLING UNIT.
2. TOTAL PARCEL AREA 0.69 ACRES (FROM PLAN REFERENCES)
3. PERMITS
   PREVIOUS NHDES CONSTRUCTION APPROVAL: N/A PRE-1967
   PREVIOUS NHDES SUBDIVISION APPROVAL NUMBERS: N/A PRE-1967
4. THE MAJORITY OF THIS SITE LIES WITHIN THE 140B SCS SOILS GROUP AS SHOWN ON THE SCS SOILS MAPS FOR THE TOWN OF SALEM NEW HAMPSHIRE.
   140B – CHATFIELD/HOLLIS/CANTON COMPLEX
5. SYSTEM LOADING CALCULATIONS:

TOTAL NUMBER OF EXISTING BEDROOMS	=	3	
TOTAL NUMBER OF PROPOSED BEDROOMS	–	4	
(3 BEDROOM HOME WITH A 1 BEDROOM ADU)			
4.5 BEDROOMS X 150 GPD	=	675	GPD
PERCOLATION RATE:		8	MIN./INCH
NHDES MINIMUM LEACHING FIELD SIZE	=	1,128	SQ. FT.
MINIMUM EDA SIZE USING CONCRETE CHAMBERS	–	677	SQ. FT.

6. USE 15' X 76' PIPE & STONE FIELD, TOTAL AREA = 1,140 SQ. FT.
7. DESIGN INTENT: BOTTOM OF THE PROPOSED LEACHING FIELD SHALL BE **1.67 FEET** BELOW THE EXISTING GRADE ON THE UPHILL SIDE.
8. SEPTIC TANK: USE (1) 2,500 GALLON PRECAST CONCRETE SEPTIC TANK AS MANUFACTURED AND DISTRIBUTED BY PHEONIX PRECAST CONCRETE, OR APPROVED EQUAL.
9. DISTRIBUTION BOX: USE (1) 3 OUTLET PRECAST CONCRETE DISTRIBUTION BOX AS MANUFACTURED AND DISTRIBUTED BY PHEONIX PRECAST CONCRETE, OR APPROVED EQUAL.
10. EQUALIZER FLOW DIVIDERS ARE NOT TO BE INSTALLED WITH THIS DESIGN.
11. PER TOWN OF SALEM REGULATIONS AN EFFLUENT FILTER IS PROPOSED WITH THIS DESIGN. ZABEL MODEL A1800, OR APPROVED EQUAL, SHALL BE PLACED ON THE OUTLET OF THE PROPOSED SEPTIC TANK. ZABEL FILTERS DISTRIBUTED BY ZABEL ENVIRONMENTAL TECHNOLOGY, LOUISVILLE, KY 40299 – PHONE: (800) 221-5742
12. NEAREST NEIGHBORING WELL OR GROUP 6 SOIL ARE ALL GREATER THAN 75 FEET AWAY FROM THE PROPOSED SYSTEM. NEAREST GROUP 5 SOIL IS GREATER THAN 50 FEET FROM THE PROPOSED EDA. WETLANDS REVIEWED ON SITE IN ACCORDANCE WITH ENV-WQ 1014.06.
14. SHOULD FAILURE OCCUR THIS SYSTEM SHALL BE REBUILT IN-PLACE
15. PIPES LEADING TO AND EXITING FROM THE PROPOSED SEPTIC TANK, PUMP CHAMBER AND DISTRIBUTION BOX SHALL BE SEALED WITH AN APPROVED METHOD AS TO MAKE THE JOINTS WATERTIGHT PER ENV-WQ 1010
16. PRIOR TO THE START OF CONSTRUCTION ALL BENCHMARKS SHALL BE VERIFIED FOR ACCURACY.
17. FOUNDATION DRAINS: NONE OBSERVED, NO FOUNDATION DRAINS SHALL BE INSTALLED WITHIN 15 FEET OF THE PROPOSED SEPTIC SYSTEM OR WITHIN 5 FEET OF THE PROPOSED SEPTIC TANK.
18. NO GARBAGE DISPOSAL IS PROPOSED WITH THIS DESIGN. SHOULD THE PROPOSED HOMEOWNER CHOOSE TO ADD A GARBAGE DISPOSAL THEN THE DESIGN WILL NEED TO BE AMENDED TO INCREASE THE SEPTIC TANK CAPACITY BY 50%. (ENV-WS 1010.01(c)
19. NO SEWAGE GRINDER IS PROPOSED WITH THIS DESIGN. SHOULD THE HOMEOWNER CHOOSE TO ADD A SEWAGE GRINDER THEN THE TANK SIZE SHALL BE TWICE THE SIZE REQUIRED, THIS SHALL BE ACCOMPLISHED BY TANK DUPLICATION OR COMPARTMENTALIZATION. (ENV-WS 1010.01(d))
20. JOINTS ARE TO BE BELLED PVC OR STANDARD SLIP COLLARS.
21. 2' OF COVER OVER THE FIELD SHALL BE PROVIDED WHERE MOTOR VEHICLE TRAFFIC WILL PASS OVER THE SEPTIC SYSTEM.
22. FILL SHALL NOT BE OF SATURATED MATERIAL.
23. ALL TREES, ROOTS, TOPSOIL AND ORGANIC MATERIAL MUST BE REMOVED FROM THE AREA TO BE FILLED, OUT TO AND INCLUDING THE AREA UNDER THE IMPERMEABLE SOIL BARRIER. FILL MATERIAL TO BE OF CLEAN MEDIUM TO COURSE SAND, FREE OF TOPSOIL, HUMUS, DREDGING OR STONES OVER 6" IN DIAMETER.
24. INSTALLER TO PROVIDE MEASURED TIES TO THE PROPERTY OWNER OF THE LOCATION OF THE SEPTIC TANK ACCESS COVERS.
25. ANY DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE DESIGNER BEFORE CONTINUING WITH THE INSTALLATION.
26. A MINIMUM OF 6" OF MEDIUM TO COURSE SAND WITH LESS THAN 5% PASSING THE #200 SIEVE IS REQUIRED UNDER THE FIELD
27. INSTALLER TO CONTACT DIG-SAFE A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
28. WATER SOFTENERS, JACUZZI TUBS OR SIMILAR AMENITIES SHALL NOT BE DISCHARGED DIRECTLY INTO THE PROPOSED FIELD. IF SUCH AMENITIES ARE PROPOSED THE IN THE STRUCTURE THEN THE CONTRACTOR SHALL NOTIFY THE DESIGNER AND AN ALTERNATIVE FOR THESE SERVICES WILL BE DEVISED AND INSTALLED.
29. MAINTENANCE: RECOMMEND INSPECTION OF THE SEPTIC TANK AT LEAST ONCE EVERY TWO YEARS AND PUMP OUT IF THE COMBINED THICKNESS OF SLUDGE AND SCUM EQUALS MORE THAN 1/4 OF THE LIQUID DEPTH INSIDE THE TANK.
30. THERE ARE NO KNOWN BURIAL SITES OR CEMETERY'S ON THE LOT OR WITHIN 100 FEET OF ANY PART OF THE SEPTIC SYSTEM IN ACCORDANCE WITH ENV-WQ 1003.13(A)(3)
31. EXISTING TANK TO BE PUMPED OUT, CRUSHED AND REMOVED
32. THIS PLAN REQUIRES A WAIVER FROM THE TOWN OF WINDHAM NH BOARD OF HEALTH

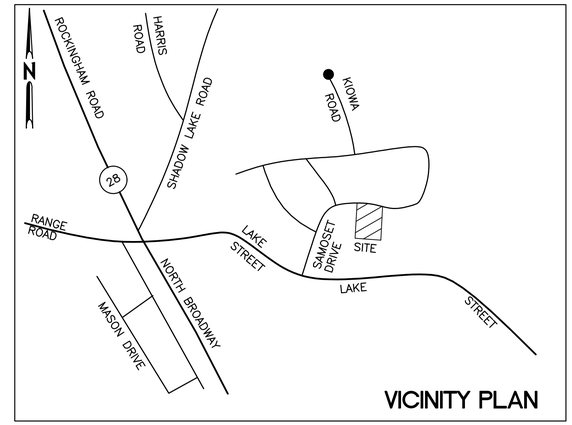
NOTE:

FILL MATERIAL IMMEDIATELY UNDER THE BED SHALL BE MEDIUM TO COURSE TEXTURED SAND (0.25MM-2.0MM) WITH NO MORE THAN 5% PASSING THE #200 SIEVE, AND NO PARTICLES SIZE LARGER THAN 3/4 INCH OR MATERIAL MEETING THE ASTM C-33 SPECIFICATIONS. IF BED IS RAISED MORE THAN 3.0 FEET, PLACE COURSE TEXTURED SAND IN 16" LIFTS. CONSOLIDATE AND RAKE SURFACE PRIOR TO SETTING NEXT LIFT. EXTEND 5 FEET AROUND AND UNDER SIDESLOPES.



SITE LOADING CALCULATION

TOTAL LOT AREA	–	0.69 ACRES
AREA W/IN WELL RADIUS	–	0.25 ACRES
AREA USEABLE FOR CALC	=	0.44 ACRES
0.44 ACRES * 2,000 GPD/AC		
1.3 SOIL FACTOR	=	677 GPD
TOTAL ALLOWABLE SITE LOADING	–	677 GPD
TOTAL PROPOSED SYSTEM LOADING	=	675 GPD



TEST PIT A

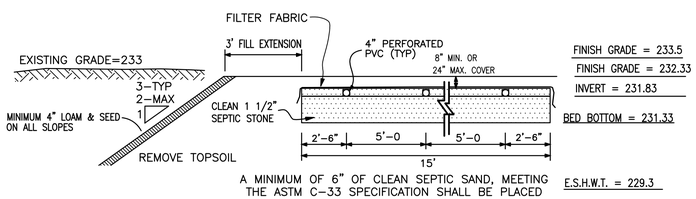
(CONDUCTED ON NOVEMBER 15, 2025)

0-4" TOPSOIL (10YR 3/3) LOAM, GRANULAR, FRIABLE

4"-44" (10YR 5/4) SANDY FILL GRANULAR, FRIABLE.

44"-66" (2.5Y 5/4) SAND GRANULAR, FRIABLE

ESHWT: 44"
NO WATER OBSERVED
NO LEDGE ENCOUNTERED
PERC. RATE: 8 MIN./INCH



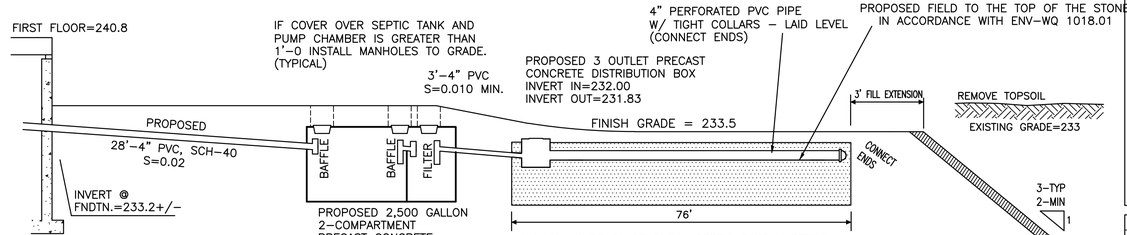
A MINIMUM OF 6" OF CLEAN SEPTIC SAND, MEETING THE ASTM C-33 SPECIFICATION SHALL BE PLACED UNDER THE PROPOSED EDA

SEPTIC STONE REQUIREMENTS;

ENV-WQ 1016.04(b) APPROVED SEPTIC STONE SHALL BE CLEAN, UNIFORMLY-SIZED CRUSHED STONE, WASHED ROCK OR SIMILAR AGGREGATE, 1.5 INCH, FREE OF FINES WITH A RANGE OF 0.75 INCHES TO 2.5 INCHES IN ACCORDANCE WITH ENV-WQ TABLE 1014-2

ENV-WQ 1016.04(c) APPROVED SEPTIC STONE SHALL MEET THE SIEVE SIZE AND PERCENT PASSING BY WEIGHT REQUIREMENTS IN ACCORDANCE WITH AASHTO, 27TH EDITION, TEST METHOD T011-85, WHICH REPLACES AASHTO 17TH EDITION TEST METHOD T11-85, AND WHICH APPLIES TO SEPTIC STONE AVAILABLE FOR RETAIL PURCHASE, AS SET FORTH IN ENV-WQ TABLE 1014-2

TYPICAL SECTION A-A



PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE EXISTING INVERT AT THE FOUNDATION. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGNER BEFORE CONTINUING INSTALLTION OF THE SYSTEM

TYPICAL SYSTEM PROFILE

A MINIMUM OF 6" OF CLEAN SEPTIC SAND, MEETING THE ASTM C-33 SPECIFICATION SHALL BE PLACED UNDER THE PROPOSED EDA

NOTE:

FILL MATERIAL IMMEDIATELY UNDER THE BED SHALL BE MEDIUM TO COURSE TEXTURED SAND (0.25MM-2.0MM) WITH NO MORE THAN 5% PASSING THE #200 SIEVE, AND NO PARTICLES SIZE LARGER THAN 3/4 INCH OR MATERIAL MEETING THE ASTM C-33 SPECIFICATIONS. IF BED IS RAISED MORE THAN 3.0 FEET, PLACE COURSE TEXTURED SAND IN 16" LIFTS. CONSOLIDATE AND RAKE SURFACE PRIOR TO SETTING NEXT LIFT. EXTEND 5 FEET AROUND AND UNDER SIDESLOPES.

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SEPTIC SYSTEM PLAN

TAX MAP 55 LOT 6805

#14 SAMOSET DRIVE

SALEM, NEW HAMPSHIRE 03079

OWNER OF RECORD/PREPARED FOR
JAMES MENIATES JR & GAIL EMANIATES 2019 TRUST
14 SAMOSET DRIVE
SALEM, NEW HAMPSHIRE 03079
RCRD BOOK 6653/PAGE 1045

SCALE: 1"=20' SHEET 1 OF 1 DECEMBER 12, 2025

REVISIONS	DATE

BENCHMARK LLC
Consulting Engineers Land Planners
50 Nashua Road, Suite 305
Londonderry, New Hampshire 03053
Phone: (603) 437-5000

D:\Benchmark LLC\Benchmark LLC\2500-2599\2578-Soucy Samoset Salem\2578-Soucy Samoset Salem NH-pipe&stone.dwg Septic 12/30/25 2:09pm Joe Maynard