PROJECT DESCRIPTION:) COPIES NOT BEARING THE EMBOSSED SEAL OF Underground utility, structure and facility locations THE SURVEYOR OR ENGINEER SHALL BE THE EXISTING BARN IS TO BE CONVERTED TO A TWO-BEDROOM GUEST SEPTIC ELEVATION TABLE shown have been determined from record maps HOUSE. A NEW SEPTIC TANK AND PUMP CHAMBER WAS INSTALLED IN RENDERED NULL AND VOID. provided by utility companies, governmental agencies, MAY 2021 AND CONNECTED TO THE EXISTING SEPTIC SYSTEM. THE testimony, field locations, and other sources. Other) REVISIONS TO THESE PLANS BY ANYONE INSTALLED EXISTING SEPTIC SYSTEM (3 BEDROOM DESIGN) IS CODE COMPLIANT utilities may exist on site or in the area shown . The OTHER THAN ARTHUR H. HOWLAND. PC SHALL INVERT (FT) INVERT (FT) COMPONENT size, location, and existence of all underground MAKE THESE PLANS NULL AND VOID. ARTHUR H. 827.3 828.0 DESIGN CRITERIA FOR POOL HOUSE/BARN FLOW LINE AT NEW FOUNDATION features must be field verified by the appropriate HOWLAND, PC SHALL TAKE NO RESPONSIBILITY SEPTIC TANK INLET 826.42 providers prior to construction Call Before You Dig, FOR SAID REVISIONS. NUMBER OF BEDROOMS IN ORIGINAL 2007 DESIGN 827.05 SEPTIC TANK OUTLET 826.18 1-800-922-4455. NUMBER PROPOSED BEDROOMS REVISIONS: PUMP CHAMBER INLET 826.8 825.71 PERCOLATION RATE (MINUTES PER INCH) EXISTING EXISTING DISTRIBUTION BOX #1 INLE (SEPTIC FILL PERC RÀTE = 2.2 MINS. PER ÎNCH) 13.5 HYDRAULIC GRADIENT (%) MLSS ANALYSIS: WIRE DEER FEINCE FENCE 26 HYDRAULIC FACTOR (HF) WIRE DEER FENCE 1.0 FLOW FACTOR (FF) MULCHED AREA GATE 2.0 PERCOLATION FACTOR (PF) NETTING DOME DEED REFERENCE: V. 151 P. 275 WASHINGTON $MLSS = HF \times FF \times PF$ COVERED EX. BARNOSEPTIOSYSTEMPERCH 52 LF LEACHING SYSTEM SPREAD REQUIRED AS-BUILT MAP PREPARED BY 100% OF MINIMUM LEACHING SYSTEM SPREAD PROVIDED PROPERTY IS LOCATED WITHIN THE R-1 ZONE T. MICHAEL ALEX, L.S. DISTRICT. **EXISTING SEPTIC SYSTEM DESIGN:** NURSERY ELEVATION DATUM IS ASSUMED. 159.08 LINEAL FEET OF 4 FEET WIDE BY 1 FOOT HIGH PLASTIC GALLERIES. 1 FOOT OF STONE HAS BENE PLACED ON THE SIDES OF THE GALLERIES AND ON AREA REFER TO CONNECTICUT GENERAL STATUTES THE ENDS OF THE GALLERY ROWS. SEC. 8-13a REGARDING THE NONCONFORMING 675 EFFECTIVE LEACHING AREA REQUIRED (SQUARE FEET) LOCATIONS OF BUILDINGS THAT HAVE EXISTED 938 EFFECTIVE LEACHING AREA PROVIDED (SQUARE FEET) FOR MORE THAN THREE YEARS. $(159.08 LF \times 5.9 SF/LF = 938.5 SF PROVIDED)$ CONSTRUCTION DRIVE 1,000 EXISTING SEPTIC TANK VOLUME (GALLONS) 1,000 EXISTING PUMP CHAMBER VOLUME (GALLONS) SEPTIC FORCE MAIN CONNECTION OF NEW FORCE MAIN 2" POLYETHYLENE PIPE TO EXISTING FORCE MAIN ASTM D 2239 . GRASS, ORGANICS, FILL AND ALL TOPSOIL IN THE PRIMARY LEACHING AREA ARE TO BE REMOVED PRIOR TO PLACEMENT OF SELECT FILL. AREA IS TO BE SCARIFIED AFTER STRIPPING TOPSOIL. HEAVY EQUIPMENT IS TO BE KEPT OUT OF THE PROPOSED SANITARY DISPOSAL SYSTEM AREAS. 2. USE APPROVED 2 COMPARTMENT SEPTIC TANK PLACED LEVEL WITH A MINIMUM 159.08 LF OF 12" HIGH ---OF 6 INCHES OF COVER. (H-20 LOADING IF PLACED UNDER DRIVE OR PARKING PLASTICE INFILTRATORS AREA.) TANK COVERS ARE TO BE EXTENDED TO GRADE AS REQUIRED. ALL DOUBLE ROW WITH STONE EXISTING BAFFLED NEWLÝ INSTALLED TANKS SHALL HAVE AN APPROVED NON-BYPASS EFFLUENT (SEE\HEALTH FILES FOR DETAILS) \ DISTRIBUTION BOX FILTER AT THE OUTLET. 8. LARGE TUBS AND GARBAGE GRINDERS REQUIRE ADDITIONAL SEPTIC TANK LIQUID CAPACITY AND SHOULD BE SIZED ACCORDINGLY. GARBAGE GRINDERS ARE NOT RECOMMENDED. SET ALL DISTRIBUTION BOXES ON MINIMUM 12 INCH TRENCH STONE BASE. 5. NO AIR CONDITIONING, REFRIGERATION, WATER SOFTENER RESIDUES. SURFACE OR SUBSURFACE DRAINS ARE TO BE CONNECTED TO THE SANITARY DISPOSAL SYSTEM. 6. FOOTING DRAINS AND OUTLETS ARE TO BE A MINIMUM OF 25' FROM THE SANITARY DISPOSAL SYSTEM. . IF CURTAIN DRAIN IS SPECIFIED, IT SHALL BE INSTALLED PER TYPICAL DETAIL AND DESIGN PLANS. . THERE ARE NO KNOWN OR PROPOSED WELLS WITHIN 75' OF THE PROPOSED SANITARY DISPOSAL SYSTEM LEACHING FIELDS. . SELECT FILL SHALL BE COMPRISED OF CLEAN SAND & GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING CONNECTICUT PUBLIC HEALTH CODE REQUIREMENTS UNLESS OTHERWISE APPROVED BY A PROFESSIONAL ENGINEER FOR USE WITHIN THE LEACHING AREA: 1. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE (3) INCH SIEVE. 2. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE). 3. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED. 4. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA: SIEVE SIZE 70%-100% 70%-100% 10%-50%(SEE NOTE BELOW) 10%-75% 0%-20% 0%-5% 0%-2.5% 0%-5% NOTE: PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%. 10. THE LICENSED INSTALLER IS RESPONSIBLE FOR PREPARING THE LEACHING AREA WITH NECESSARY SELECT FILL. THE TOPSOIL IN THE LEACHING SYSTEM AREA MUST BE REMOVED AND THE SUBSOIL SCARIFIED PRIOR TO SELECT FILL PLACEMENT UNLESS OTHERWISE DIRECTED BY THE DESIGN ENGINEER. THE INSTALLER SHALL TAKE THE NECESSARY STEPS TO PROTECT THE UNDERLYING NATURALLY OCCURRING SOIL FROM OVER COMPACTION OR DAMAGE. SELECT FILL SHALL EXTEND A MINIMUM OF FIVE (5) FEET LATERALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE LEACHING SYSTEM. 11. THE INSTALLER SHALL PROVIDE A SIEVE ANALYSIS FOR ALL SELECT FILL USED ONSITE. 12. THE DEPTH OF FILL SHOWN ON THE PROFILE IS BASED UPON THE PROFILE SECTION LINE ONLY. MORE FILL MAY BE REQUIRED IN OTHER AREAS OF THE SEPTIC SYSTEM. 13. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF PROPER SOIL EROSION AND SEDIMENTATION CONTROL MEASURES PER THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL 14. PRIOR TO THE START OF CONSTRUCTION THE PROJECT SURVEYOR IS TO SET A BENCHMARK IN THE SEPTIC AREA AND STAKE THE PROPOSED LEACHING FIELDS. 15. PERCOLATION TESTS HAVE BEEN CONDUCTED WITHIN 10 FEET OF THE CORRESPONDING DEEP TEST UNLESS OTHERWISE NOTED. 16. MODIFCATIONS TO THIS PLAN SHALL BE AUTHORIZED BY THE PROJECT ENGINEER AND APPROVED BY THE LOCAL DIRECTOR OF HEALTH. **SPECIFIC NOTES:** . THE NEW MILFORD HEALTH DEPARTMENT REQUIRES AN AS-BUILT BY THE DESIGN ENGINEER. 2. THIS PLAN IS TO ILLUSTRATE HEALTH CODE COMPLIANCE FOR THE INTERIOR RENOVATION OF THE BARN/POOL HOUSE TO A TWO-BEDROOM GUEST HOUSE. NO SEPTIC WORK IS PROPOSED WITH THIS PLAN. VERS (**Proposed Barn Guest House Plan** <u>LEGEND</u> EXISTING BUILDING SETBACK LINE EXISTING CONTOUR (10 FOOT) Record Owner EXISTING CONTOUR (10 FOOT) EXISTING CONTOUR (2 FOOT) EXISTING REGULATED AREA EXISTING STORM PIPE EXISTING EDGE OF PAVEMENT (ROAD) EXISTING EDGE OF PAVEMENT (PARKING) EXISTING BUILDING/HOUSE EXISTING WOOD FENCE EXISTING WRE FENCE EXISTING GUIDERAIL EXISTING RETAINING WALL EXISTING RETAINING WALL Angela & Edward J. 24"Maple EXISTING STONE WALL EXISTING SPOT ELEVATION EXISTING IRON PIN EXISTING IRON PIPE **Bramson Nettleton Hill Farm,** EXISTING UTILITY POLE EXISTING STORM STRUCTURE LLC W EXISTING WELL A to 1 = 28.7EXISTING DEEP TEST B to 1 = 33.3EXISTING PERC TEST 270 Nettleton Hollow Road A to 2= 33.4' EXISTING SEPTIC SYSTEM (PRIMARY) B to 2 = 31.3EXISTING WETLAND FLAG Town of Washington A to 3 = 37.4EXISTING WETLAND **County of Litchfield** B to 3 = 29.1EXISTING LEDGE OUTCROP **State of Connecticut** A to 4 = 29.7EXISTING LANDSCAPING OR TREELINE EXISTING LANDSCAPING OR TREELINE PROPOSED CONTOUR (10 FOOT) PROPOSED CONTOUR (2 FOOT) PROPOSED GAS UTILITY PROPOSED WATER UTILITY PROPOSED EDGE OF DRIVEWAY PROPOSED BUILDING/HOUSE PROPOSED PORCH/LOADING DOCK PROPOSED WOOD FENCE PROPOSED RETAINING WALL PROPOSED STONE WALL PROPOSED STONE WALL PROPOSED SILT FENCE PROPOSED LIMIT OF DISTURBANCE PROPOSED SPOT ELEVATION PROPOSED STORM STELLICTURE B to 4= 33.1', A to 5= 66.8' March 7, 2023 B to 5= 95.2' A to 6 = 54.5B to 6 = 84.4A to 7 = 113.7B to 7 = 88.3A to 8= 106.1 B to 8= 76.8' PROPOSED STORM STRUCTURE PROPOSED SEPTIC SYSTEM (PRIMARY) PROPOSED SEPTIC SYSTEM (RESERVE) PROPOSED LANDSCAPING OR TREELINE PROPOSED RIPRAP PROPOSED CONSTRUCTION ENTRANCE