

DEEP TEST PIT RESULTS

DEEP TEST PITS WERE WITNESSED BY BRITANY OTTO, E.H.S. OF THE NORTHEAST DISTRICT DEPARTMENT OF HEALTH ON 11/9/21.

TP#1
 0 - 10" TOPSOIL
 10 - 26" RED/BROWN SANDY LOAM
 26 - 43" TAN SAND W/ SOME GRAVEL, MODERATELY COMPACT
 43 - 70" GRAYISH MODERATELY COMPACT SAND W/ LARGE ROCKS
 70 - 76" GROUNDWATER
 NO MOTTLING
 GROUNDWATER @ 70"
 GROUNDWATER SEEPAGE @ 67"
 NO LEDGE
 ROOTS TO 43"
 RESTRICTIVE @ 43"

TP#2
 0 - 12" TOPSOIL
 12 - 30" BROWN SANDY LOAM, MOIST
 30 - 46" TAN MOTTLED VERY FINE SANDY LOAM
 46 - 62" GRAYISH MEDIUM SAND, WET
 62 - 72" GROUNDWATER
 MOTTLING @ 30"
 GROUNDWATER @ 62"
 GROUNDWATER SEEPAGE @ 55"
 NO LEDGE
 ROOTS TO 28"
 RESTRICTIVE @ 30"

TP#3
 0 - 18" TOPSOIL
 18 - 30" BROWN SANDY LOAM
 30 - 40" TAN MOTTLED VERY FINE SANDY LOAM, MODERATELY COMPACT
 40 - 62" GRAYISH MEDIUM SAND, WET
 62 - 73" GROUNDWATER
 MOTTLING @ 30"
 GROUNDWATER @ 62"
 GROUNDWATER SEEPAGE @ 50"
 NO LEDGE
 ROOTS TO 29"
 RESTRICTIVE @ 30"

PERCOLATION TEST RESULTS

PERCOLATION TEST WAS PERFORMED BY DEMAN A. SORRENTINO, C.S.S. OF BOUNDARIES, LLC ON 11/9/21.

PERC-1
 DEPTH OF PERC = 26"
 PRECIPITATION 1 HR
 TIME READING
 9:45 6-1/2"
 9:50 13-1/2"
 9:55 17"
 10:00 19-1/4"
 10:05 21"
 10:10 22"
 10:15 23"
 10:20 24"
 10:25 24-3/4"

PERCOLATION RATE AT 26"
 DEPTH = 5.0 MINUTES/INCH

SANITARY DESIGN CRITERIA & MLSS CALCULATIONS

PROPOSED 2-BEDROOM HOUSE & 1-BR ACCESSORY DWELLING UNIT (DESIGN FOR MULTI-FAMILY RESIDENCE, 4-BR MINIMUM PER SECTION VII.F.1 OF THE TECHNICAL STANDARDS, LAST REVISED 1/1/18)
 DESIGN PERCOLATION RATE = LESS THAN 10.1 MINUTES/INCH
 LEACHING AREA REQUIRED = 660 SF EFFECTIVE (455 + 165)
 DESIGN: 1,500 GALLON CONCRETE SEPTIC TANK, 1,000 GALLON CONCRETE PUMP CHAMBER AND 1 ROW OF 60' OF ELJIN MANTIS 536-8 LEACHING MEDIA INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 LEACHING AREA PROVIDED = 660 SF EFFECTIVE (60 LF X 11.0 SF/LF)
 100% RESERVE AREA PROVIDED (1 ROW OF 60' OF ELJIN MANTIS 536-8 LEACHING MEDIA)

MINIMUM LEACHING SYSTEM SPREAD (MLSS) CALCULATION

HYDRAULIC GRADIENT = 6.0%
 DEPTH TO RESTRICTIVE LAYER (USE TP#4) = 30"
 HYDRAULIC FACTOR = 30
 FLOW FACTOR FOR 4-BEDROOMS (MULTI-FAMILY) = 2.0
 PERCOLATION FACTOR FOR UP TO 10.0 MIN/INCH = 1.0
 MLSS REQUIRED = 60'
 MLSS PROVIDED = 60'

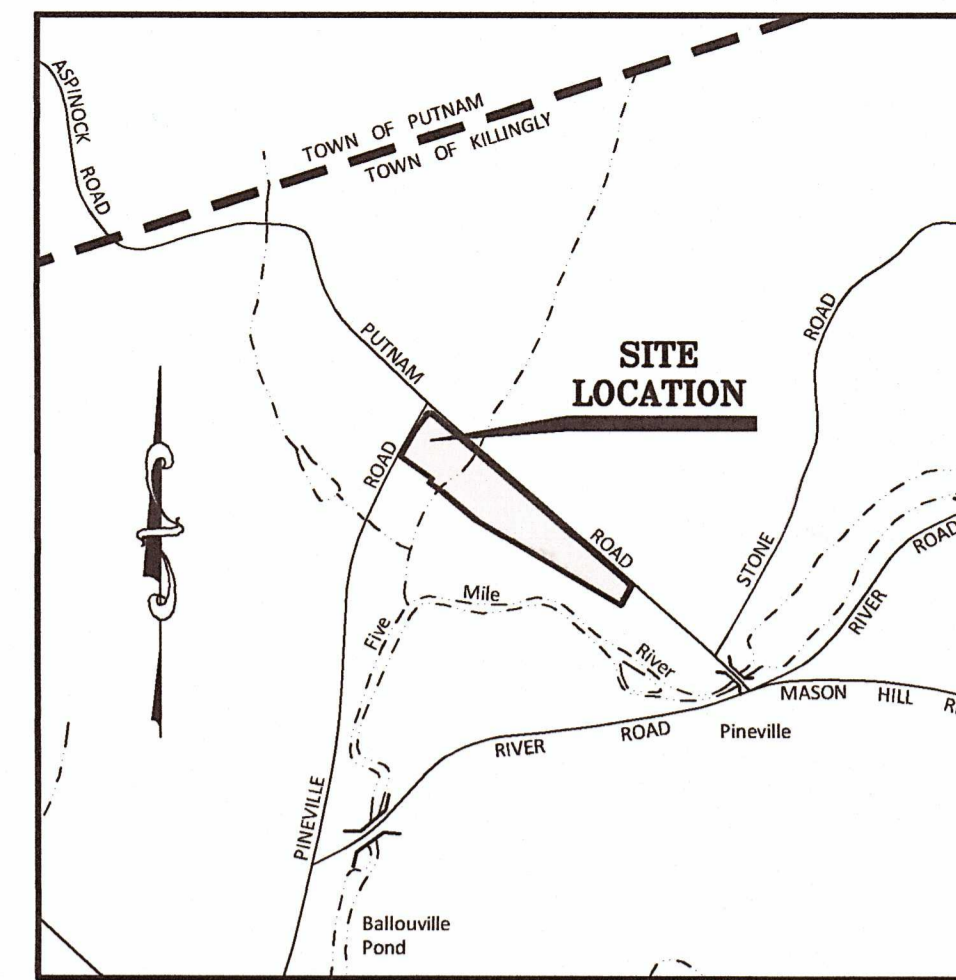
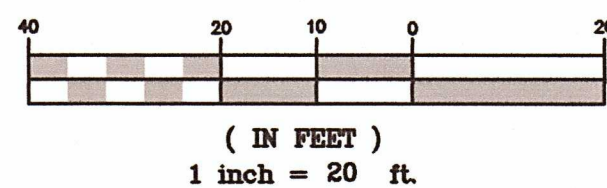
LEGEND & ABBREVIATIONS

UTILITY POLE	WF#1 WETLAND FLAG
GUY WIRE	---160--- EXISTING CONTOUR
AT&T AMERICAN TELEPHONE & TELEGRAPH	---160--- PROPOSED CONTOUR
± MORE OR LESS	⊕ WELL
N/F NOW OR FORMERLY	x 174.2 PROPOSED SPOT GRADE
BR BEDROOM	x 163.0 EXISTING SPOT GRADE
FF FINISHED FLOOR	S SLOPE
BSMT BASEMENT	SAN SANITARY
MB MAILBOX	INV INVERT
TP TYPICAL	ELEV ELEVATION
○ REBAR	PVC POLYVINYL CHLORIDE
⊙ DRILL HOLE	SCHED SCHEDULE
REC RECOVERED	MIN MINIMUM
AG ABOVE GROUND	⊕ DEEP TEST PIT
W/ WITH	⊕ PERCOLATION TEST

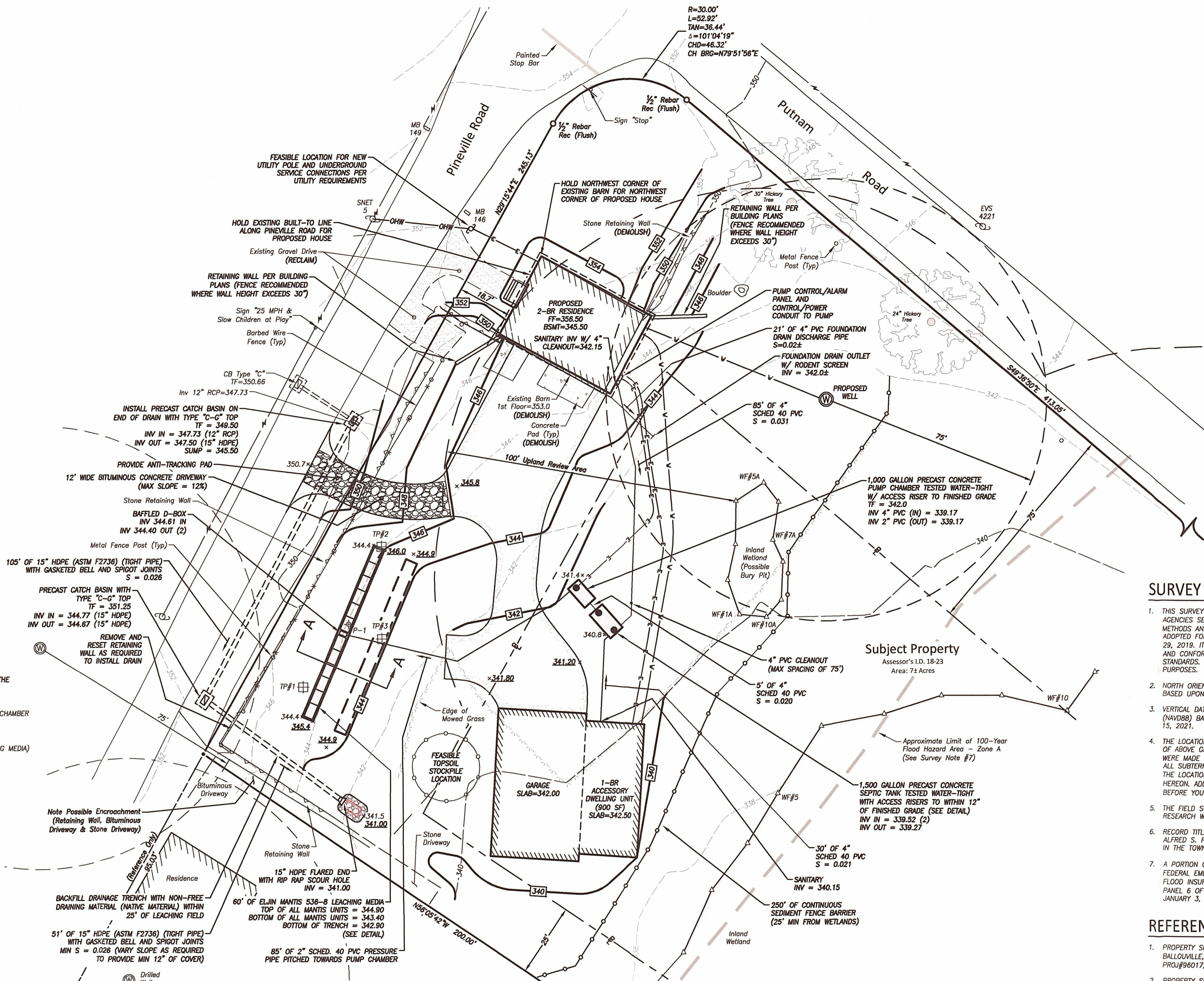


Know what's below.
 Call before you dig.

GRAPHIC SCALE



LOCATION MAP
 SCALE: 1"=1000'

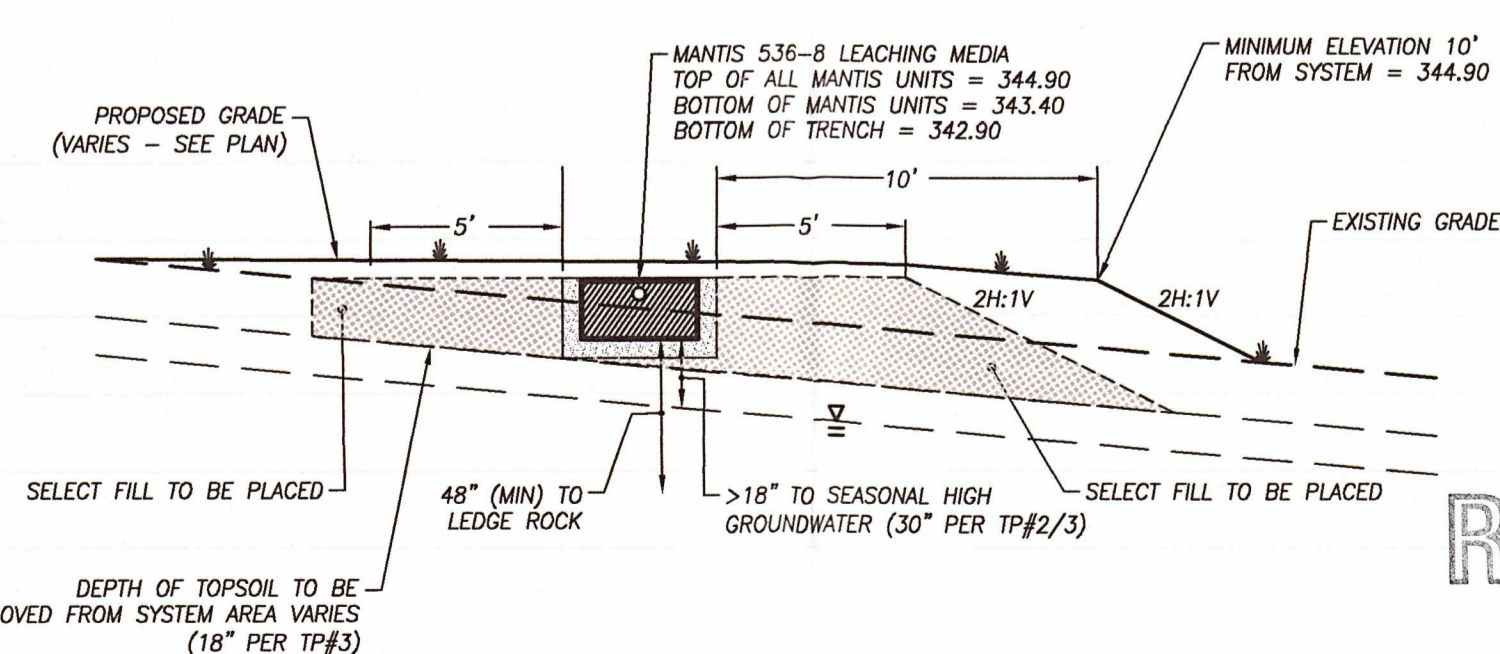


SURVEY NOTES

- THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED FOR USE BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON AUGUST 29, 2019. IT IS AN "IMPROVEMENT LOCATION & TOPOGRAPHIC SURVEY" BASED ON RESURVEY AND CONFORMS TO HORIZONTAL CLASS "A-2" AND TOPOGRAPHIC CLASS "T-2" ACCURACY STANDARDS. IT IS INTENDED TO BE USED FOR MUNICIPAL PERMITTING AND SITE DEVELOPMENT PURPOSES.
- NORTH ORIENTATION DEPICTED HEREON IS APPROXIMATE NORTH AMERICAN DATUM 1983 (NAD83) BASED UPON GLOBAL POSITIONING SYSTEM OBSERVATIONS, OBSERVED ON NOVEMBER 15, 2021.
- VERTICAL DATUM DEPICTED HEREON IS APPROXIMATE NORTH AMERICAN VERTICAL DATUM 1988 (NAV88) BASED ON GLOBAL POSITIONING SYSTEM OBSERVATIONS USING GEODETIC12B ON NOVEMBER 15, 2021.
- THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON THE LOCATION OF ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED BY OTHERS. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES. ALL SUBTERRANEAN FEATURES AND IMPROVEMENTS MAY NOT BE DEPICTED OR NOTED HEREON. THE LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. CONTACT "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OPERATIONS.
- THE FIELD SURVEY WAS COMPLETED ON NOVEMBER 15, 2021. LAND RECORD AND RELATED RESEARCH WAS COMPLETED ON OCTOBER 18, 2021.
- RECORD TITLE TO THE SUBJECT PROPERTY MAY BE REFERENCED TO A WARRANTY DEED FROM ALFRED S. POLANO AND JUDITH M. POLANO TO TAMMY RAINVILLE, RECORDED AUGUST 10, 2021 IN THE TOWN OF KILLINGLY, CONNECTICUT, WINDHAM COUNTY, PANEL 6 OF 30, COMMUNITY PANEL NUMBER 0901360006B, SCALE: 1"=400', EFFECTIVE DATE JANUARY 3, 1985.
- A PORTION OF THE SUBJECT PROPERTY RESIDES IN FLOOD ZONE "A" AS DEPICTED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) NATIONAL FLOOD INSURANCE PROGRAM (NFIP), FLOOD INSURANCE RATE MAP (FIRM), TOWN OF KILLINGLY, CONNECTICUT, WINDHAM COUNTY, PANEL 6 OF 30, COMMUNITY PANEL NUMBER 0901360006B, SCALE: 1"=400', EFFECTIVE DATE JANUARY 3, 1985.

REFERENCE MAPS

- PROPERTY SURVEY PREPARED FOR FRANK P. STANTON & KIM M. STANTON, PINEVILLE ROAD, BALLOUVILLE, CONNECTICUT, SCALE 1"=40', DATED: JANUARY 14, 1999, SHEET 1 OF 1, PROJ#96017, PREPARED BY: KWP ASSOCIATES.
- PROPERTY SURVEY PREPARED FOR ALFRED S. & JUDITH M. POLANO, PINEVILLE ROAD & PUTNAM ROAD, KILLINGLY, CONNECTICUT, SCALE 1"=50', DATED: FEBRUARY 2007, SHEET 1 OF 1, JOB NO. 07003, PREPARED BY: PC SURVEY ASSOCIATES, LLC.

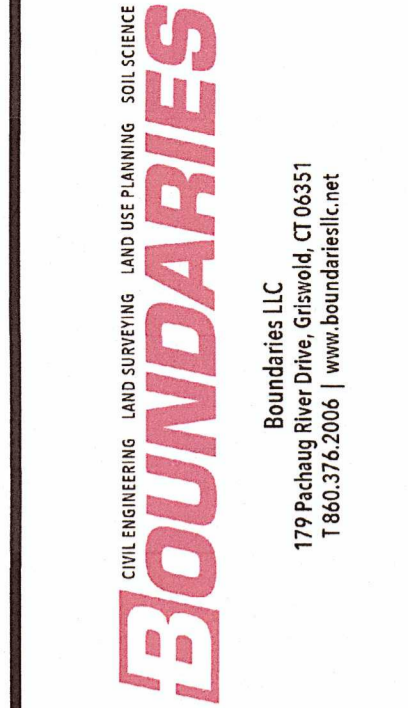


LEACHING SYSTEM CROSS SECTION A-A
 SCALE: 1"=5' (HORIZONTAL & VERTICAL)

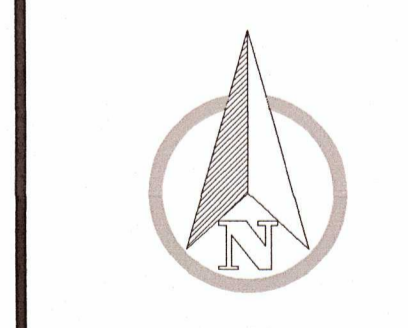
INLAND WETLANDS AS DEPICTED ON THIS PLAN WERE DERIVED FROM REFERENCE MAP #1. BASED ON AN INSPECTION OF CURRENT CONDITIONS, THE DELINEATION APPEARS TO BE ACCURATE.

"TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON."

DEMAN A. SORRENTINO, C.S.S. 12/8/21 DATE
 DAVID C. MCKAY, P.E. 29102 12-8-21 LICENSE NO. DATE
 JOHN U. FAULISE JR., L.S. 70016 12/8/21 LICENSE NO. DATE



Improvement Location & Topographic Survey
 "Subsurface Sewage Disposal System (SSDS) Design Plan"
 Prepared for
Tammy Rainville & Robert LaBonte
 146 Pineville Road - Dayville, Connecticut



SCALE:	1" = 20'
DATE:	December 2021
JOB I.D. NO.:	21-3089
Revisions	
SHEET NO.	1

P:\CIVIL_3D PROJECTS\2021\21-3089 LABONTE\DWG\DESIGN\21-3089 LABONTE SSDS PLAN.DWG

© 2021 BOUNDARIES LLC
 THIS DRAWING IS THE PROPERTY OF BOUNDARIES LLC AND HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER OF THIS PROJECT. AT THIS SITE AND IS NOT TO BE REPRODUCED OR USED IN PART OR WHOLE FOR ANY OTHER PURPOSE. PROJECT LOCATION OR OWNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF BOUNDARIES LLC.