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JOB# 24-012.DWG FBK#318

DEEP TEST PIT DATA

WITNESSED AND RECORDED BY CHERYL HAASE RS, LEDGE LIGHT HEALTH DISTRICT ON JULY 21, 2021. TEST PIT 1 0-8" TOPSOIL 0-10" TOPSOIL W/FINE ROOTS 8-31" ORANGE-BROWN FINE SANDY LOAM 10-30" ORANGE FINE SANDY LOAM 31-84" LIGHT BROWN MED-FINE SAND/GRAVEL 30-84" LIGHT BROWN MED-COARSE SAND/GRAVEL (LARGE BOULDERS THROUGHOUT) NO MOTTLING NO MOTTLING NO GROUNDWATER NO GROUNDWATER NO LEDGE NO LEDGE TEST PIT 3 TEST PIT 4 0-12" TOPSOIL 0-16" TOPSOIL W/ LEAF DEBRIS 12-24" ORANGE FINE SANDY LOAM 16-22" ORANGE FINE SANDY LOAM 24-64" LIGHT BROWN MED-COARSE SAND/GRAVEL 22-80" TAN-GRAY SAND W/SILT (COMPACT) MOTTLING AT 18" NO MOTTLING GROUNDWATER 80", SEEPAGE AT 26" NO GROUNDWATER

LEDGE AT 64"

PERFORMED BY DIETER & GARDNER, INC. ON AUGUST 2, 2021.

PERC A 15" DEEP		PERC B 15" DEEP	
TIME 10: 31 10: 36 10: 41 10: 46 10: 51 10: 56 11: 01 11: 06 11: 11	READING 0" 2 1/2" 4 1/2" 6 1/2" 7 1/2" 8 1/2" 9 1/2" 10 1/2" 11 1/8"	TIME 10: 31 10: 36 10: 41 10: 46 10: 51 10: 56 11: 01 11: 06	READING 0" 4 1/2" 8 1/2" 11" 12" 13" 14" 15"

SANITARY DESIGN CRITERIA

- A. PROPOSED 430 Sq. FT. OFFICE (430; 200 Sq. Ft. GROSS AREA/PERSON) = 2.15 EMPLOYESS X 20 GPD = 43 GPD GARAGE AREA (INDUSTRIAL BUILDING) 1840 Sq. Ft. x 0.1 GPD = 184 GPD TOTAL = 227 GPD. (PER TABLE IV OF THE CODE)
- B. 1000 GALLON TWO COMPARTMENT SEPTIC TANK REQUIRED BY CODE AND
- C. DESIGN PERCOLATION RATE: 10.0 MIN./IN.
- D. MINIMUM LEACHING SYSTEM SPREAD: NOT APPLICABLE
- APPLICATION RATE (TABLE B) 1.5 GPD PER S.F. 227 GPD/1.5=151.3 S.F. ELA E. EFFECTIVE LEACHING AREA REQUIRED PER CODE: 152 S.F.
- F. MANTIS 536-8 LOW PRO SELECTED FOR PRIMARY SYSTEM DESIGN. EFFECTIVE LEACHING AREA PROVIDED PER L.F. PER CODE: 6.5 S.F./L.F. MINIMUM LENGTH OF TRENCH REQUIRED: 152 S.F./ 6.5 S.F./L.F. = 23.4'
- G. EFFECTIVE LEACHING AREA PROVIDED:
- 1 ROW 25' LONG MANTIS 536-8 LOW PRO 1 X 25' X 6.5 S.F./L.F. = 162.5 S.F.
- H. 100% RESERVE AREA REQUIRED AND PROVIDED AS 25' LONG 536-8 MANTIS LOW PRO.

SANITARY ELEVATION DATA:

- (1) SANITARY INVERT AT FOUNDATION: 209.00
- 2 18'-4" DIA. SCHEDULE 40 ASTM D1785 OR EQUAL PIPE (MIN. SLOPE = 1/4" PER FT.)
- (3) 1000 GALLON TWO COMPARTMENT SEPTIC TANK INVERT IN: 208.50
- INVERT OUT: 208.25 (4) 9' - 4" DIA. SDR 35 PVC PIPE
- ⑤ "D" BOX

LAND SURVEYORS • PLANNERS

P.O. BOX 335

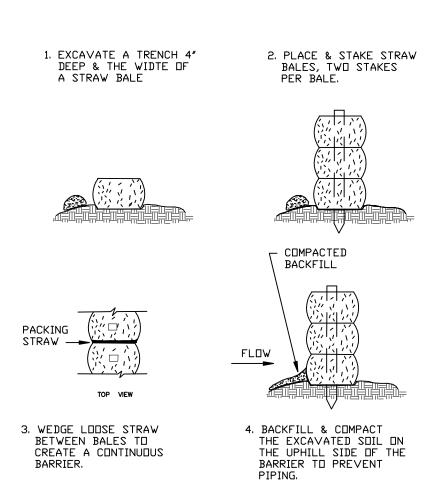
GALES FERRY, CT. 06335

(860) 464-7455

EMAIL: DIETER.GARDNER@YAHOO.COM

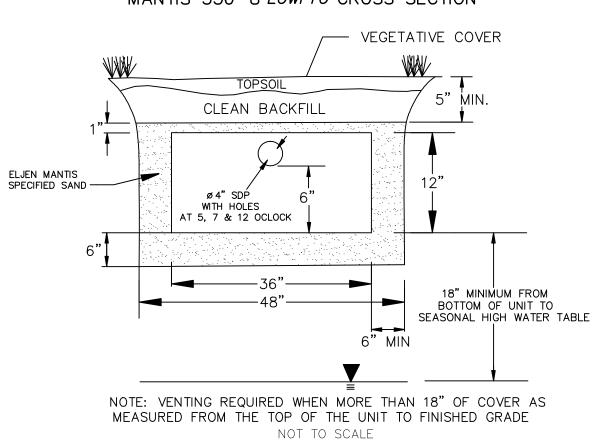
1641 ROUTE 12

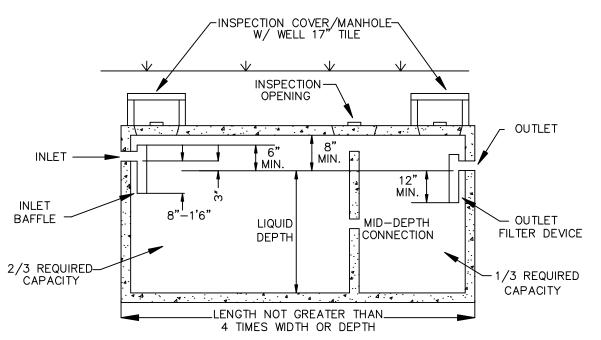
- INVERT IN: 207.70 INVERT OUT: 207.50
- 6 25' LONG MANTIS 536-8 LOW PRO BOTTOM TRENCH ELEV.: 207.00 TRENCH INV.: 207.50



CONSTRUCTION OF A STRAW BALE BARRIER NOT TO SCALE

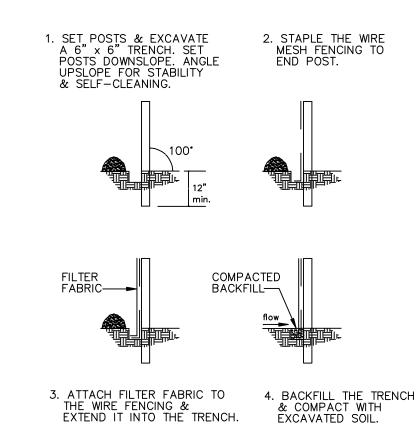
MANTIS 536-8 LowPro CROSS SECTION





NOTE: CLEANOUT MANHOLES AND ALL BAFFLED INSPECTION MANHOLES SHALL BE LOCATED AT A DEPTH NOT GREATER THAN 12" BELOW FINAL GRADE.

SEPTIC TANK DETAIL NOT TO SCALE



FILTER FABRIC SEDIMENT BARRIER NOT TO SCALE

PLAN SHOWING PROPOSED BUILDING

ON PROPERTY OF

5A LORENZ INDUSTRIAL PARKWAY

A & R ASSOCIATES INC.

LEDYARD, CONNECTICUT

SCALE: 1"=20' OCTOBER 2024 REVISED: DECEMBER 11, 2024

SHEET 2 OF 2

THIS MAP AND SURVEY HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THROUGH 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES-"MINIMUM STANDARDS OF ACCURACY, CONTENT AND CERTIFICATION FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT", ADOPTED EFFECTIVE JUNE 21, 1996, REVISED OCTOBER 26, 2018. IT IS A BOUNDARY SURVEY BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2. TOPOGRAPHIC ACCURACY T-2. TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

TITLE: LAND SURVEYOR CT No. 14208

DATE: OCTOBER 1, 2024

