

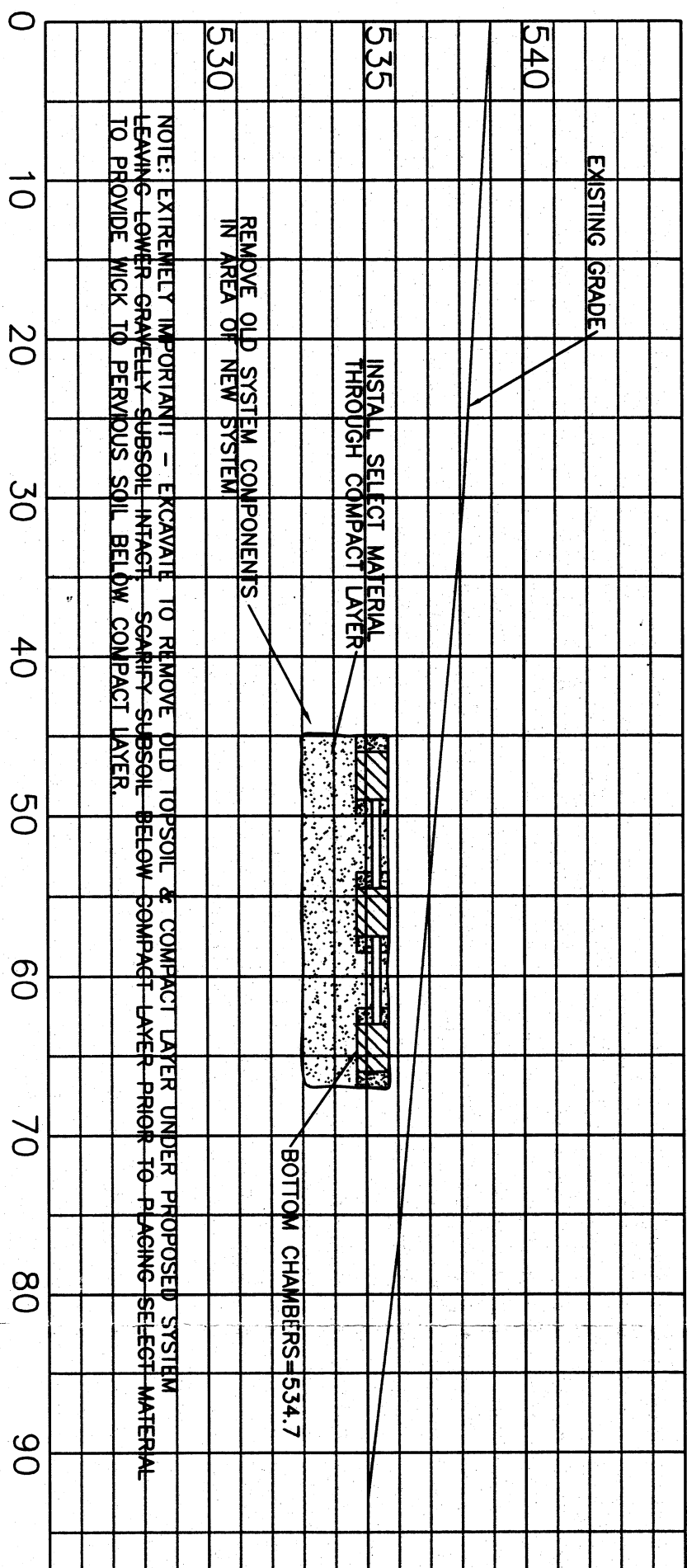
1. All construction methods, materials and installation of the system to be in accordance with all applicable local and state regulations.
2. Topographic data based on actual field topography, property lines shown on record map and field survey.
3. The test results and soil types shown apply only to the test holes shown and may vary throughout the site. Soil type and grade should be verified by the owner over the entire leaching area prior to construction.
4. Select fill, if required, to be placed in maximum of 12" lifts and to be composed to a minimum of 90% composition of #56 stone, #56 stone, #20 stone, #20 stone. Prior to the delivery of select fill to the site, the contractor at the expense of the Design Engineer shall furnish a certified gradation analysis to the local Health Department and to the Design Engineer. Final approval of select fill will be conditional on the completion of a percolation test on the impasse material. This test is to be witnessed by the Design Engineer and/or local Health Department official. The maximum allowable percolation rate will be 1" in 10 minutes, unless otherwise noted.
5. Unless otherwise directed herein, the site requiring placement of select fill shall be prepared by removing all topsoil in the system trench and/or spread with a small crawler, tractor or other approved machinery. Upon placement of the first lift of select fill, material shall be thoroughly troweled into the existing subsoil layer.
6. Call "Cut Before You Dig" 1-800-922-4455 to locate underground utilities on property and show service lines to building from public utilities shown on plan.
7. Contractor shall contact the certifying engineer and Health department at least 24 hours prior to starting construction, or the system installation will not be certified.
8. The licensed installer shall cover the septic system with clean soil as prescribed by the latest revision of Technical Standards. Clean soil is native soil, free of contaminants such as boulders, building debris, stumps, etc.

| TP #1 | TP #2 | TP #3 |
|---|--|---|
| TOTAL DEPTH=88" | TOTAL DEPTH=84" | TOTAL DEPTH=96" |
| 0-20" BROWN SANDY SILT LOAM | 0-20" BROWN SANDY SILT LOAM | 0-24" BROWN SANDY SILT LOAM |
| 20-48" LIGHT BROWN FINE TO MEDIUM SAND, TRACE SILT, GRAVEL | 24-32" DARK BROWN COMPACT LAYER (POSSIBLY ORIGINAL TOPSOIL) TO MEDIUM SAND, 62-66" COARSE SAND, GRAVEL & COBBLES | 24-48" LIGHT BROWN FINE TO MEDIUM SAND, TRACE SILT, GRAVEL |
| 48-72" DARK BROWN FINE TO MEDIUM SAND, TRACE SILT, GRAVEL & COBBLES | 72-84" COARSE SAND, GRAVEL & COBBLES | 48-72" DARK BROWN FINE TO MEDIUM SAND, TRACE SILT, GRAVEL & COBBLES |
| 72-88" COARSE SAND, GRAVEL & COBBLES | MOTTLED (REDOX LAYER)=32" | 72-88" COARSE SAND, GRAVEL & COBBLES |
| COMPACT LAYER/MOTTLED (REDOX LAYER)=56" | WATER LEVEL: 66" | COMPACT LAYER/MOTTLED (REDOX LAYER)=48" |
| WATER LEVEL: 72" | NO LEDGE | NO LEDGE |

PERC 1 1" in 20 min.
PERC 2 1" in 4.4 min.
PERC 3 1" in 13.5 min.
MASS CALCULATIONS: Restraint Depth = 32" Slope = 4.0% HF = 30 F.F. = 1.0 PF = 1.5
MASS = (50) X (1.10) X (1.5) = 45
DESIGN CRITERIA: FIREHOUSE CONTINUOUSLY STAFFED WITH 3 OPERATIONS
REQUIREMENTS: 100 GPD PER BEEDROOM, 100 GPD PER FIREMAN, 300 GPD
TYPICAL RESIDENCE = 150 GPD PER BEEDROOM, FIREHOUSE EQUIVALENT TO TWO BEEDROOM HOUSE - DESIGN FOR TWO BEEDROOM SYSTEMS
EFFECTIVE LEACHING AREA REQUIRED = 500 SQUARE FEET FOR TWO BEEDROOM SYSTEM TO MEET THE CONN. STATE HEALTH CODE.
500 SF/PAVING RATE OF 3.7 F/FSR FOR CULTED CONTRACTOR 100 CHAMBERS = 135.14 LF TOTAL REQUIRED LENGTH
SLOPE 135.14 lineal feet of 36" WIDE BY 12.5" HIGH CULTED CONTRACTOR 100 CHAMBERS FOR FIREHOUSE WITH LEVEL DISTRIBUTION

SYSTEM DETAILS

| No. | Inv.Elev. |
|-----|---------------|
| ① | EX.INV. 536.4 |
| ② | EX.INV. 536.2 |
| ③ | 535.3 |
| ④ | 535.3 |
| ⑤ | 535.3 |

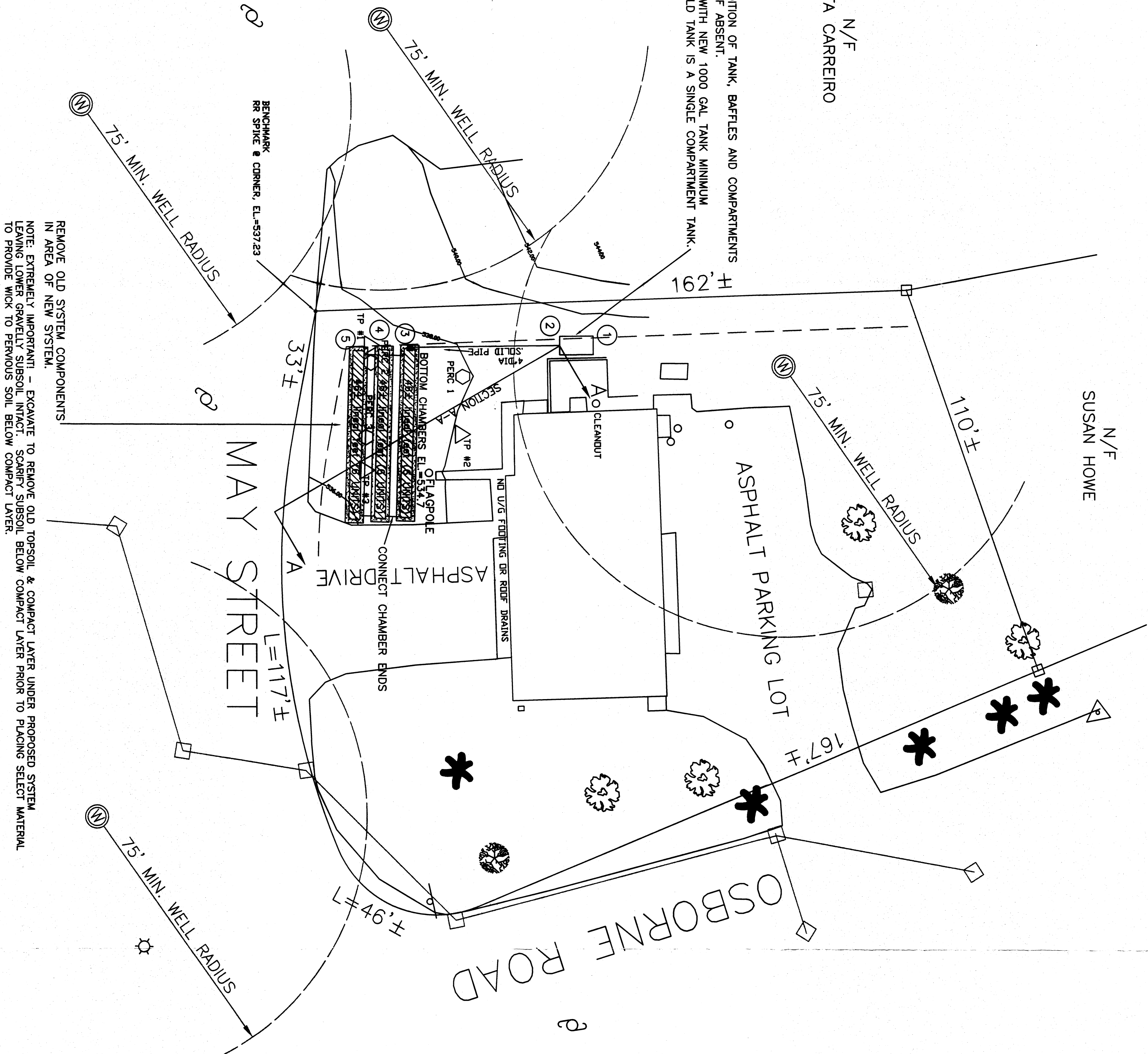


SCALE : Horiz: 1" = 10ft
Vert: 1" = 5ft

I hereby certify that the percolation test(s) shown hereon were conducted in conformance with all current state regulations unless otherwise noted hereon.

Connecticut P.E. #13297

EXISTING SEPTIC TANK - CHECK CONDITION OF TANK, Baffles and COMPARTMENT INSTALL Baffles and OUTLET FILTER IF ABSENT.
NOTE: SEPTIC TANK TO BE REPLACED WITH NEW 1000 GAL TANK MINIMUM (1250 GALLON TANK PREFERRED) IF OLD TANK IS A SINGLE COMPARTMENT TANK.



REMOVE OLD SYSTEM COMPONENTS!
IN AREA OF NEW SYSTEM.

NOTE: EXTREMELY IMPORTANT – EXCAVATE TO REMOVE OLD TOPSOIL & COMPACT LAYER UNDER PROPOSED SYSTEM LEAVING LOWER GRAVELLY SUBSOIL INTACT. SCARIFY SUBSOIL BELOW COMPACT LAYER PRIOR TO PLACING SELECT MATERIAL PROVIDE LOWER TO PEROUS SOIL BELOW COMPACT LAYER

1. THIS SURVEY AND MAP HAVE BEEN PREPARED PURSUANT TO THE REGULATIONS OF THE CONNECTICUT STATE ARCHIVES SECTIONS 20-306A - THROUGH 20-306B-20 AND 20-306B-21, AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 22, 2018 AND CONFORMS TO THE STANDARDS OF HORIZONTAL, VERTICAL, AREA, AND PERIMETER ACCURACY CLASS 1-2. THIS MAP IS INTENDED TO DEPICT THE PROPOSED SPOT, STATION, BEAM, DECK, AND

TYPE OF SURVEY: IMPROVEMENT LOCATION SURVEY - PROPOSED

2. TAX ASSESSOR'S REFERENCE: 14-10613

3. TAX ASSESSOR'S RATE: .04

PARCEL AREA = .04 ACRES

B. SUBDIVISION MAP SHOWING LAND OF CLARENCE SCHULTZ, MAY STREET, MAUNATON, CT. SCALE 1"=40'. DATED: MAY, 1977 REVISED JUNE 6, 1977 PREPARED BY: FRANK A. DESMOND, P.E. & L.S.

PROPOSED SEPTIC REPAIR PLAN
EAST SIDE FIREHOUSE, 581 MAY STREET

SHEET 1 OF 1

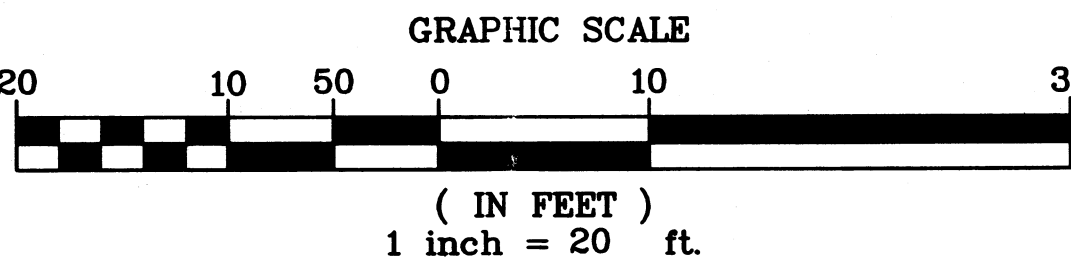


To my knowledge and belief, this map is substantially correct as noted hereon.

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Wayne J. Zurek

Wayne J. Zirilli P.E. & I.S. No. 13297



- EXISTING CONTOUR
- PROPOSED CONTOUR
- DEEP TEST PIT
- PERCOLATION TEST
- FILTER FABRIC FENC
- ANTI-TRACKING APRON

[illegible]