

SEDIMENTATION AND EROSION CONTROL MEASURES

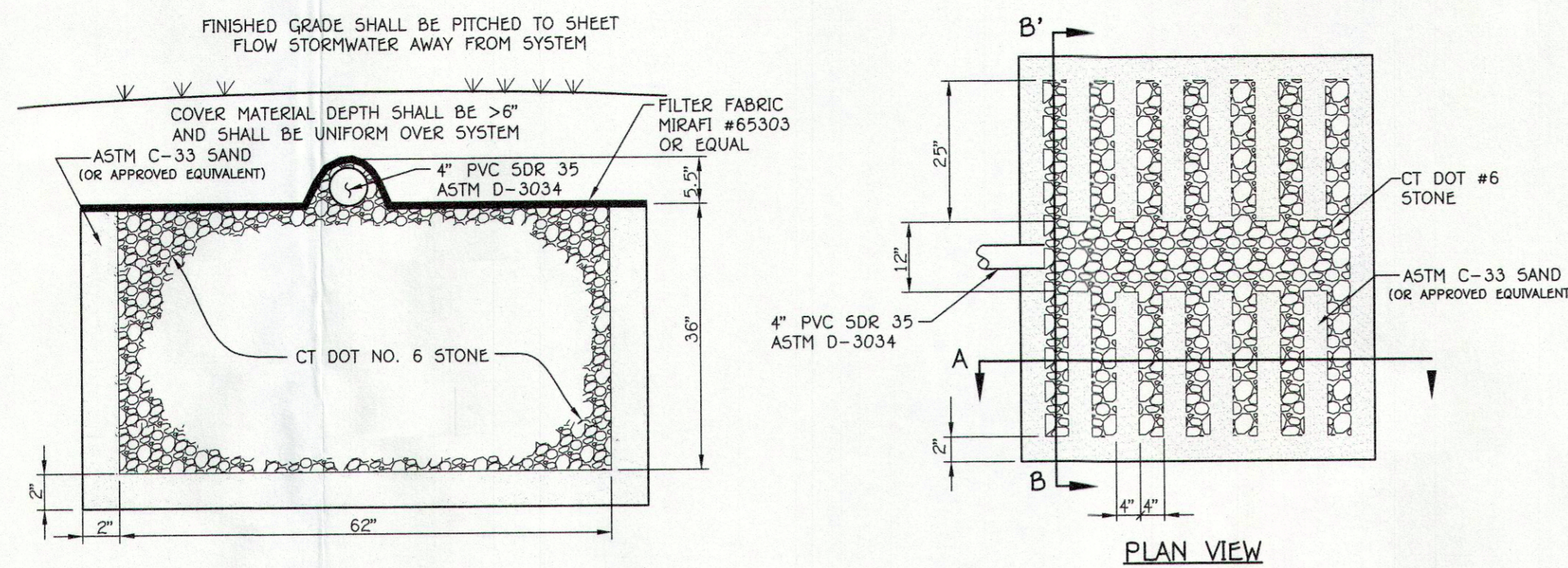
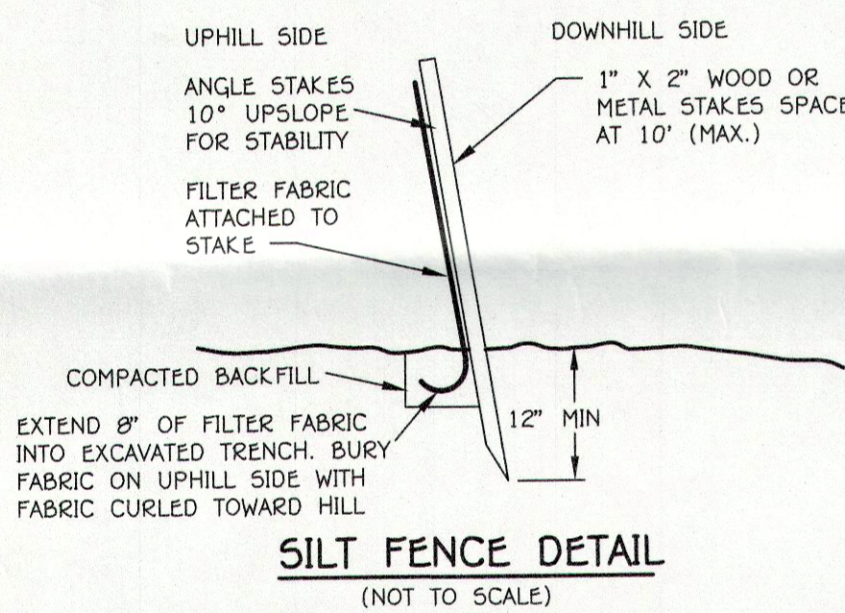
- CLEAR TREES, BRUSH FROM AREA TO BE GRADED.
- INSTALL SILT FENCE EROSION BARRIER (SEE PLAN).
- FILL AND GRADE ONLY THOSE AREAS SHOWN ON PLAN.
- REMOVE ALL STONES, STUMPS, ETC. FROM GRADED AREA, THEN PLACE LOAM TO A DEPTH OF 4" OR MORE.
- DURING SEED BED PREPARATION, APPLY FERTILIZER AT THE RATE OF 7.5 LBS. PER 1000 SQUARE FEET USING 10-10-10 OR EQUIVALENT.
- SEED ALL EXPOSED AREAS WITH THE FOLLOWING SEED MIXTURE:
 KENTUCKY BLUEGRASS 2.25 LBS/1000 SQ. FT.
 CREEPING RED FESCUE 2.25 LBS/1000 SQ. FT.
 PERENNIAL RYEGRASS .50 LBS/1000 SQ. FT.
- AFTER SEEDING, MULCH SHOULD BE APPLIED TO EXPOSED AREAS. STRAW AND HAY MULCHING REQUIRE ANCHORING. THIS MAY BE ACCOMPLISHED BY THE USE OF A MULCHING ANCHORING TOOL, LIQUID MULCH BINDER, OR BY DRIVING TRACKED EQUIPMENT UP AND DOWN THE SLOPE KEEPING THE TRACK CLEAR PERPENDICULAR TO THE SLOPE.
- WHERE VEGETATIVE COVER HAS NOT BEEN ESTABLISHED PRIOR TO OCTOBER 30, APPLY JUTE MESH AS PER CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- ALL INSTALLED SEDIMENTATION AND EROSION CONTROL MEASURES MUST BE MAINTAINED UNTIL THE AREA IS ESTABLISHED. INSPECTIONS SHOULD BE MADE AT LEAST ONCE A WEEK AND AFTER EACH RAIN.

CONSTRUCTION NOTES FOR SEPTIC SYSTEM

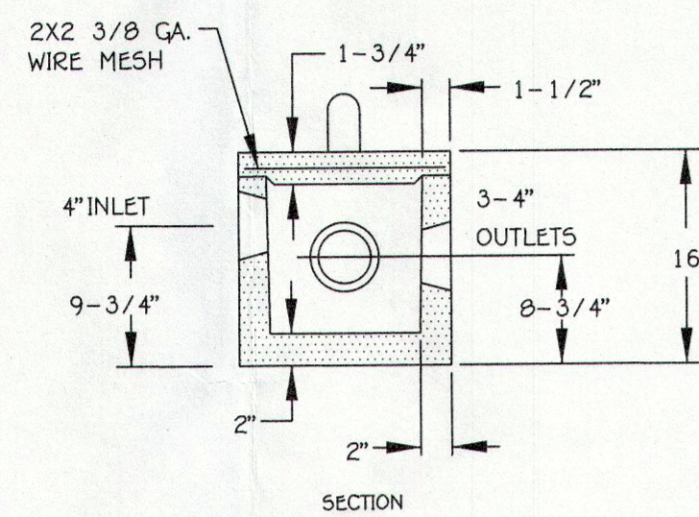
- REMOVE TOPSOIL FROM SYSTEM AREA AND STORE ON-SITE FOR FUTURE USE.
- ENGINEER TO SET A BENCHMARK AND STAKE SEPTIC SYSTEM PRIOR TO CONSTRUCTION. ENGINEER TO AS-BUILT SEPTIC SYSTEM COMPONENTS PRIOR TO BACKFILL AND PROVIDE AN AS-BUILT MAP CONTRACTOR TO NOTIFY ENGINEER (3) BUSINESS DAYS IN ADVANCE FOR REQUEST TO PERFORM STAKEOUT OR AS-BUILT SURVEYS.
- PRIOR TO FILL PLACEMENT, KEEP HEAVY EQUIPMENT TRAFFIC TO A MINIMUM IN SYSTEM AREA TO AVOID COMPACTION OF SUBSOIL. SCARIFY SUBSOIL WHERE COMPACTION OR IF HEAVY RAIN FALLS DURING CONSTRUCTION WHEN SUBSOIL IS EXPOSED.
- ANY UNSUITABLE MATERIAL ENCOUNTERED BELOW TOPSOIL TO BE REMOVED. AREA TO BE INSPECTED AND APPROVED BY DESIGN ENGINEER AND TOWN SANITARIAN PRIOR TO PLACEMENT OF FILL.
- PLACE APPROVED FILL TO CONTOURS SHOWN IN 6" LIFTS. FILL IN SYSTEM AREA TO BE APPROVED BY TOWN SANITARIAN AND DESIGN ENGINEER, AND CONFORM TO THE FOLLOWING GRADATION DETERMINED BY WASHED SIEVE ANALYSIS:
 - THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE #4 SIEVE.
 - UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE.
 - THE MATERIAL THAT PASSES THE #4 SIEVE IS THE REWEIGHED AND THE SIEVE ANALYSIS STARTED.
 - THE REMAINING MATERIAL SHALL MEET THE FOLLOWING GRADATION CRITERIA:

SIEVE SIZE	PERCENT PASSING	
	WET SIEVE	DRY SIEVE
#4	100	100
#10	70-100	70-100
#40	10-50*	10-75
#100	0-20	0-5
#200	0-5	0-2.5

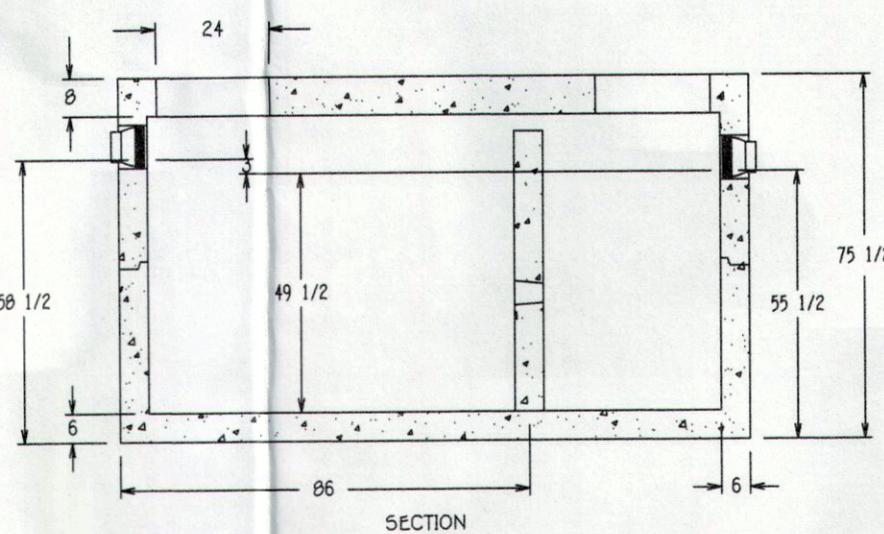
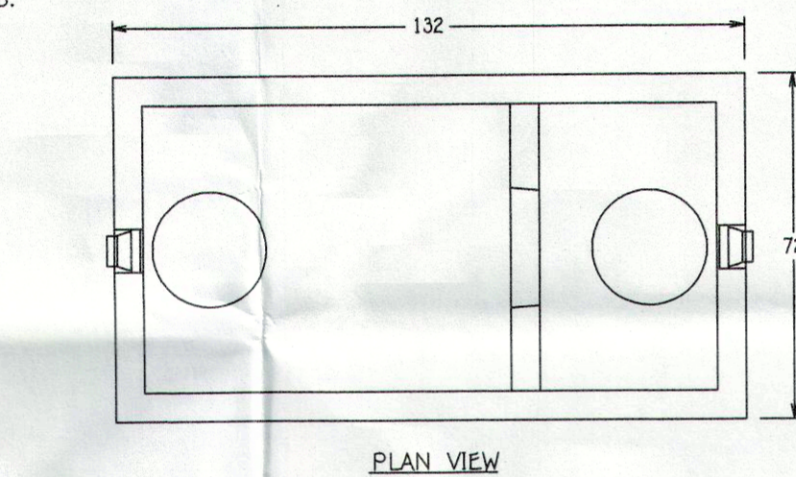
- PERCENT PASSING THE #40 CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.
- EXCAVATE AND INSTALL LEACHFIELD OR GALLERY. LEACHFIELD OR GALLERY MUST BE INSPECTED BY TOWN SANITARIAN BEFORE BACKFILLING.
- AFTER BACKFILLING SYSTEM, GRADE, LOAM AND SEED ALL EXPOSED AREAS IMMEDIATELY. ALL SEEDING MUST BE COMPLETE PRIOR TO SEPTEMBER 15.
- IMPLEMENT STEPS 5-9 OF SEDIMENTATION & EROSION CONTROL MEASURES.
- ALL SEPTIC SYSTEMS ARE ASSUMED TO HAVE NO LARGE CAPACITY TUBS AND GARBAGE DISPOSALS.



B-B' CROSS SECTION
GEOMATRIX GST6236 LEACHING SYSTEM
 NOT TO SCALE



DISTRIBUTION BOX
 N.T.S.



1500 GALLON
TWO COMPARTMENT TANK
 N.T.S.

- DESIGN NOTES
- ALL JOINTS SEALED WITH BUTYL RUBBER SEALANT
 - WHEELS 4-20 WHEEL LOAD
 - CONCRETE STRENGTH 5000 PSL MIN. 28 DAYS

SEPTIC SYSTEM DESIGN CRITERIA

PARCEL 1
 PROPOSED 6 BEDROOM SEPTIC SYSTEM DESIGN
 DESIGN PERCOLATION RATE = 1-10.0 MIN/IN.
 742.5 SF OF EFFECTIVE LEACHING AREA REQUIRED
 PROVIDE 1 RUN OF 30 LF GEOMATRIX GST 6236
 786 SF OF EFFECTIVE LEACHING AREA PROVIDED
 1,375 GALLON SEPTIC TANK REQUIRED
 1,500 GALLON TANK PROVIDED

MLSS CALCULATION
 RESTRICTIVE LAYER = >60" NO MLSS REQUIRED

PARCEL 2 (NO APARTMENTS)
 PROPOSED 4 BEDROOM SEPTIC SYSTEM
 DESIGN PERCOLATION RATE = 1-10.0 MIN/IN.
 577.5 FT OF EFFECTIVE LEACHING AREA REQUIRED
 PROVIDE 1 RUN 23 LF OF GEOMATRIX GST 6236
 602.6 LINEAR FEET EFFECTIVE LEACHING AREA PROVIDED
 1,125 GALLONS SEPTIC TANK REQUIRED
 1,250 GALLON SEPTIC TANK PROVIDED

PARCEL 3 (NO APARTMENTS)
 PROPOSED 4 BEDROOM SEPTIC SYSTEM
 DESIGN PERCOLATION RATE = 1-10.0 MIN/IN.
 577.5 FT OF EFFECTIVE LEACHING AREA REQUIRED
 PROVIDE 1 RUN 23 LF OF GEOMATRIX GST 6236
 602.6 LINEAR FEET EFFECTIVE LEACHING AREA PROVIDED
 1,125 GALLONS SEPTIC TANK REQUIRED
 1,250 GALLON SEPTIC TANK PROVIDED

MLSS CALCULATION
 RESTRICTIVE LAYER = >60" NO MLSS REQUIRED

SOIL EROSION AND SEDIMENT CONTROL PLAN

CERTIFIED BY _____ SIGNATURE _____ DATE _____

APPROVED BY THE ESSEX PLANNING COMMISSION
 _____ CHAIRMAN/WOMAN _____ DATE APPROVED _____

EXPIRATION DATE PER SECTION 9-26c, CONNECTICUT GENERAL STATUTES _____ DATE _____

APPROVED BY THE ESSEX BOARD OF SELECTMAN
 _____ FIRST SELECTMAN _____ DATE _____

APPROVED BY THE ESSEX FIRE MARSHAL
 _____ SIGNATURE _____ DATE _____

APPROVED BY THE ESSEX TOWN SANITARIAN
 _____ SIGNATURE _____ DATE _____

TEST HOLE DATA
 DATE: 1/31/23
 PRESENT: FERN TREMBLAY (ALMGPS), DON MITCHELL, MARK (SULLIVAN LANDSCAPING)

TEST HOLE 2023-1
 9" TOPSOIL
 9" - 25" BROWN FINE SANDY LOAM
 25" - 88" ORANGE BROWN FINE TO MEDIUM SAND
 88" - 96" ORANGE BROWN MEDIUM TO COARSE SAND & GRAVEL
 NO WATER, NO MOTTILING, NO LEDGE, ROOTS TO 60"

TEST HOLE 2023-2
 0-16" TOPSOIL AND SANDY FILL
 16" - 30" ORANGE BROWN FINE SANDY LOAM
 30" - 78" TAN FINE TO MEDIUM SAND
 78" - 97" REDDISH BROWN MEDIUM TO COARSE SAND AND GRAVEL
 NO WATER, NO MOTTILING, NO LEDGE, ROOTS TO 50"

TEST HOLE 2023-3
 EAST END 0-28" DARK BROWN SANDY TOPSOIL
 WEST END DISTURBED TO 28"
 18" DARK BROWN SANDY TOPSOIL
 18" - 34" ORANGE BROWN FINE LOAMY SAND
 34" - 92" LIGHT BROWN-TAN MEDIUM SAND
 NO WATER, NO MOTTILING, NO LEDGE, ROOTS TO 60"

TEST HOLE 2023-4
 0' - 9" DARK BROWN SANDY TOPSOIL
 9' - 54" ORANGE BROWN MEDIUM SAND
 54' - 88" TAN FINE TO MEDIUM SAND
 88" - 98" REDDISH BROWN COARSE SAND AND GRAVEL (DAMP)
 NO WATER, NO MOTTILING, NO LEDGE, ROOTS TO 51"

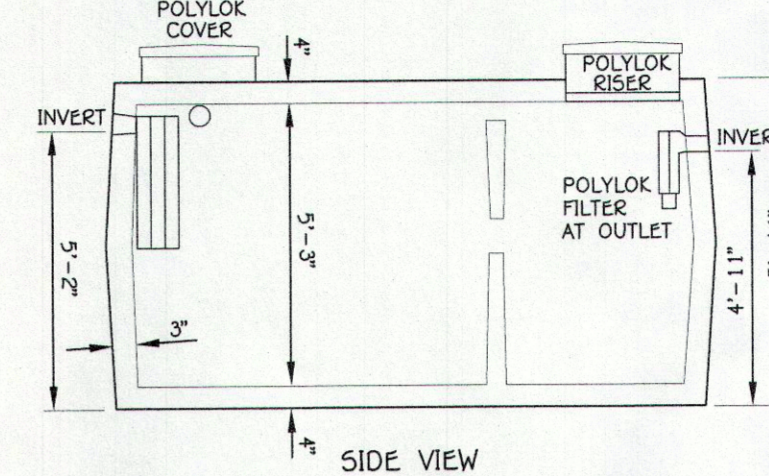
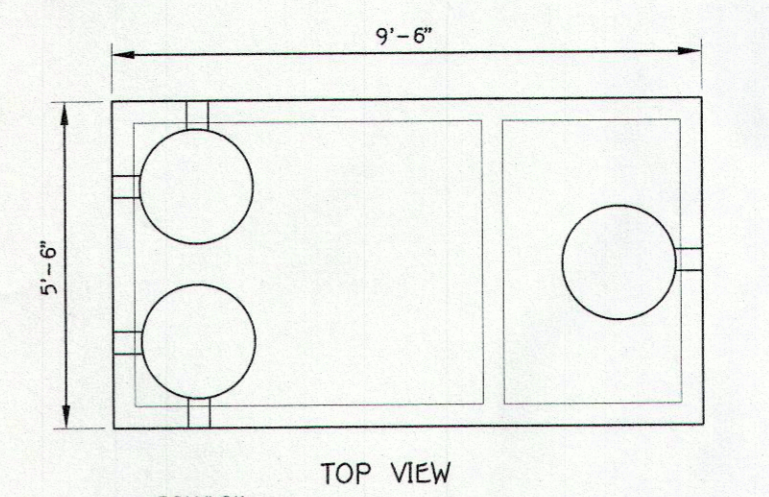
TEST HOLE 2023-5
 0 - 13" TOPSOIL / DARK BROWN SAND
 13" - 59" ORANGE BROWN FINE TO MEDIUM SAND, SOME GRAVEL (BECOMING TANNISH COLOR WITH DEPTH)
 59" - 99" BROWN MEDIUM TO COARSE SAND AND GRAVEL
 NO WATER, NO MOTTILING, NO LEDGE, ROOTS TO 32"

TEST HOLE 2023-6
 0 - 14" DARK BROWN FINE SANDY FILL
 14" - 24" ORANGE BROWN MEDIUM SAND FILL
 24" - 38" DARK BROWN MEDIUM SAND W/ ASH ON TOP
 38" - 59" ORANGE BROWN FINE TO MEDIUM SAND
 59" - 96" YELLOW BROWN MEDIUM SAND
 NO WATER, NO MOTTILING, NO LEDGE ROOTS TO 58"

TEST HOLE 2023-7
 0 - 20" DARK BROWN SANDY TOPSOIL
 20" - 42" ORANGE BROWN FINE TO MEDIUM SAND
 42" - 94" TAN MEDIUM SAND W/ SOME STONES
 NO WATER, NO MOTTILING, NO LEDGE, ROOTS TO 72"

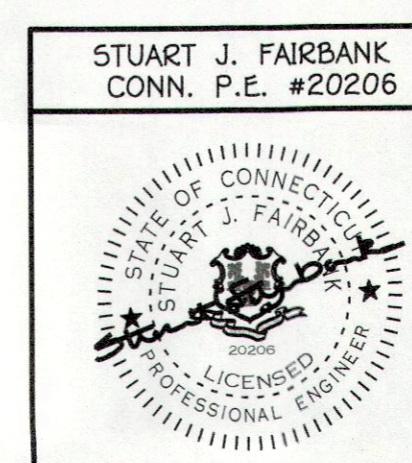
TEST HOLE 2023-8
 0 - 12" DARK BROWN SANDY TOPSOIL
 12" - 48" ORANGE BROWN LOAMY FINE TO MEDIUM SAND
 48" - 98" LIGHT BROWN FINE TO MEDIUM SAND
 NO WATER, NO MOTTILING, NO LEDGE, ROOTS TO 57"

TEST HOLE 2023-9
 0 - 22" DARK BROWN TO ORANGE SANDY FILL
 22" - 28" TOPSOIL
 28" - 53" ORANGE BROWN LOAMY FINE TO MEDIUM SAND
 53" - 94" LIGHT BROWN MEDIUM SAND, SOME STONES
 NO WATER, NO MOTTILING, NO LEDGE, ROOTS TO 45"



1.250 GAL REGULAR SEPTIC TANK
 NOT TO SCALE

- CONFORMS TO LATEST ASTM DESIGNATION C1227
 NOTES:
- JOINT SEALANT IS BUTYL RUBBER MASTIC TYPE SEAL THAT CONFORMS TO LATEST ASTM SPECIFICATION M-198. MEETS FEDERAL SPECIFICATION 55-5-0021 (210-A).
 - PIPE INLET AND OUTLET LOCATIONS HAVE POLYLOK II PIPE SEALS.
 - REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A615.
 - REINFORCING STEEL WELDED WIRE FABRIC CONFORM TO LATEST ASTM SPEC. A185.
 - CONCRETE COMPRESSIVE STRENGTH: 4000 PSI AT 28 DAYS.
 - METHOD OF MANUFACTURE: WET CAST
 - SECTIONS ARE MONOLITHIC.
 - APPROX. TANK WEIGHT: 9500 LBS

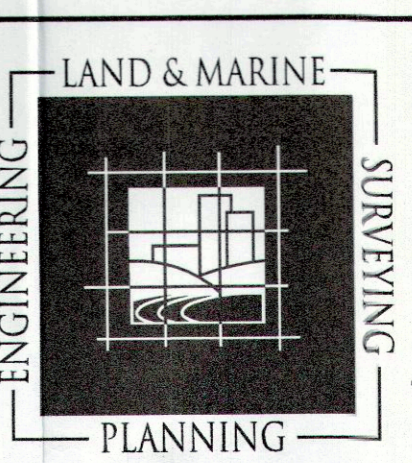


STUART J. FAIRBANK
 CONN. P.E. #20206

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 SINCE 1966

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"DETAIL SHEET"
 SUBDIVISION PLAN
 PROPERTY OF
ESSEX HOUSE LLC
 63 SOUTH MAIN STREET
 ESSEX, CONNECTICUT

DATE: APRIL 4, 2023 SCALE: 1"=20'
 DR'N MCM CK'D APP'D
 SHEET 3 of 3 JOB NO. 236638
 REVISIONS: 4-17-23 - LOT AREA REVISIONS