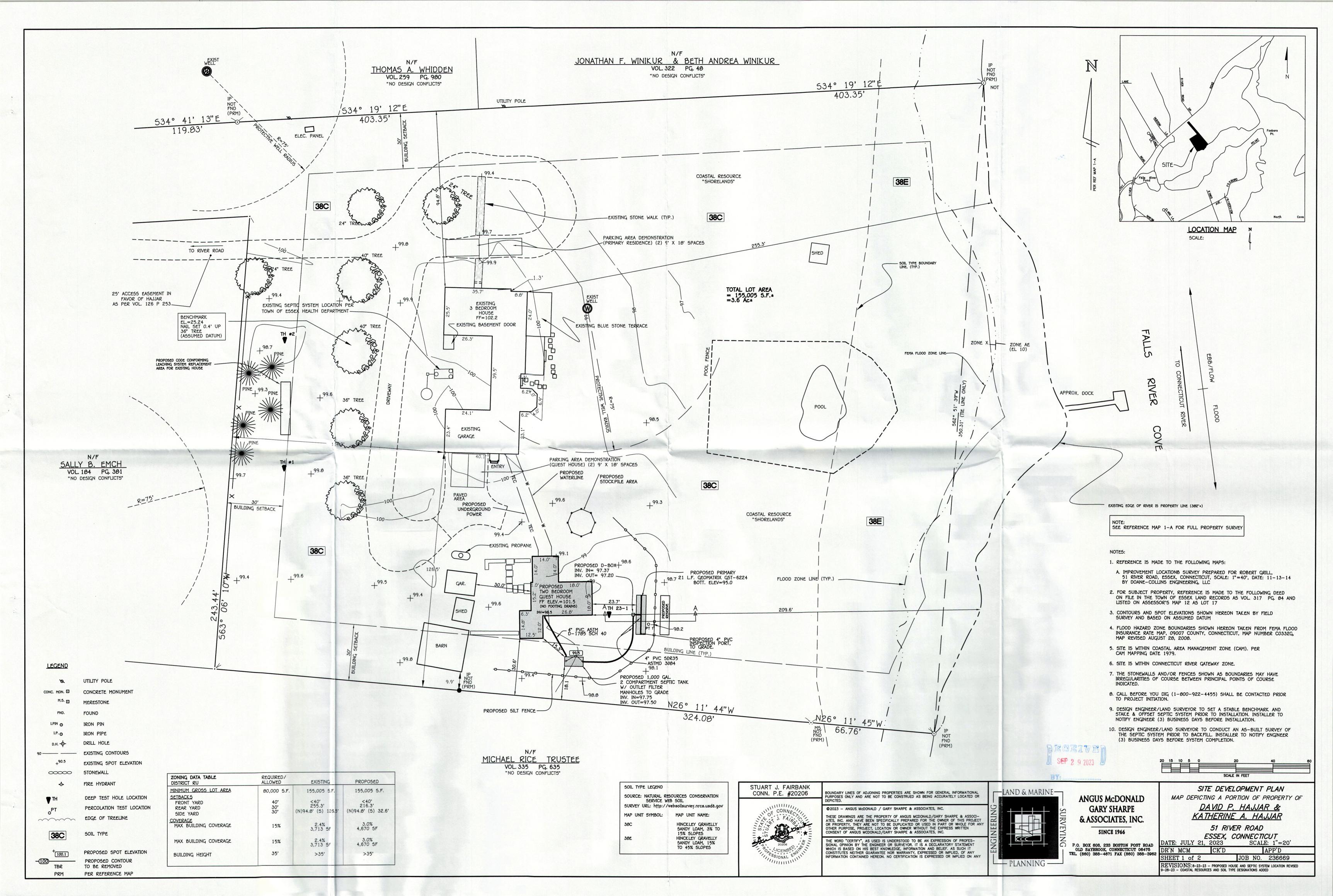
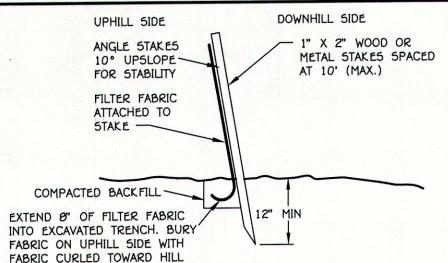


Schematic Plans, Elevations, & Perspectives

Hajjar Guest House 51 River Road, Essex, CT

A1





SILT FENCE DETAIL (NOT TO SCALE)

SEDIMENTATION AND EROSION CONTROL MEASURES

- 1. CLEAR TREES, BRUSH FROM AREA TO BE GRADED. 2. INSTALL SILT FENCE EROSION BARRIER (SEE PLAN).
- 3. FILL AND GRADE ONLY THOSE AREAS SHOWN ON PLAN. 4. REMOVE ALL STONES, STUMPS, ETC. FROM GRADED AREA, THEN PLACE
- LOAM TO A DEPTH OF 4" OR MORE. 5. DURING SEED BED PREPARATION, APPLY FERTILIZER AT THE RATE OF
- 7.5 LBS. PER 1000 SQUARE FEET USING 10-10-10 OR EQUIVALENT. 6. SEED ALL EXPOSED AREAS WITH THE FOLLOWING SEED MIXTURE:
- KENTUCKY BLUEGRASS 2.25 LB5/1000 SQ. FT. CREEPING RED FESCUE 2.25 LB5/1000 5Q. FT. .50 LB5/1000 SQ. FT.
- PERENNIAL RYEGRASS 7. AFTER SEEDING, MULCH SHOULD BE APPLIED TO EXPOSED AREAS. STRAW AND HAY MULCHES 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 CLEATS PERPENDICULAR TO THE SLOPE. 8. WHERE VEGETATIVE COVER HAS NOT BEEN ESTABLISHED PRIOR TO OCTOBER 30, APPLY JUTE MESH AS PER CONNECTICUT GUIDELINES FOR
- SOIL EROSION AND SEDIMENT CONTROL. 9. 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

- 1. REMOVE TOPSOIL FROM SYSTEM AREA AND STORE ON-SITE FOR FUTURE USE. 2. ENGINEER TO SET A BENCHMARK AND STAKE SEPTIC SYSTEM PRIOR TO CONSTRUCTION. ENGINEER TO AS-BUILT SEPTIC SYSTEM COMPONENTS PRIOR TO BACKFILL AND PRODUCE AN AS-BUILT MAP. CONTRACTOR TO NOTIFY ENGINEER (3) BUSINESS DAYS IN ADVANCE FOR REQUEST TO
- PERFORM STAKEOUT OR AS-BUILT SURVEYS. 3. PRIOR TO FILL PLACEMENT, KEEP HEAVY EQUIPMENT TRAFFIC TO A MINIMUM IN SYSTEM AREA TO AVOID COMPACTION OF SUBSOIL. SCARIFY SUBSOIL WHERE COMPACTED OR IF HEAVY RAIN FALLS DURING CONSTRUCTION WHEN SUBSOIL
- 4. 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. 5. 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: A. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE
- B. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE.
- C. THE MATERIAL THAT PASSES THE #4 SIEVE IS THE REWEIGHED AND THE SIEVE ANALYSIS STARTED.
- D. THE REMAINING MATERIAL SHALL MEET THE FOLLOWING GRADATION CRITERIA:

	PERCENT PASSING		
SIEVE SIZE	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%.
- 6. EXCAVATE AND INSTALL LEACHFIELD OR GALLERY. LEACHFIELD OR GALLERY MUST BE INSPECTED BY TOWN SANITARIAN BEFORE BACKFILLING. 7. AFTER BACKFILLING SYSTEM, GRADE, LOAM AND SEED ALL EXPOSED AREAS IMMEDIATELY.
- ALL SEEDING MUST BE COMPLETE PRIOR TO SEPTEMBER 15. 8. IMPLEMENT STEPS 5-9 OF SEDIMENTATION & EROSION CONTROL MEASURES.

GRADATION TABLE FOR ASTM C-33 SAND

GRADATION TABLE FOR CRUSHED AGGREGATE FILL TO BE USED AS COVER OVER GEOMATRIX PRODUCTS TO BE USED IN GEOMATRIX PRODUCTS

SIEVE SIZE	PERCENT PASSING
3/8"	100
#4	95-100
#8	80-100
#16	50-85
#30	25-60
#50	10-30
#100	2-10
#200	0-3

PERCENT PASSING SIEVE SIZE

TEST HOLE DATA DATE: 6-28-23 PRESENT: DON MITCHELL (ESSEX HEALTH DEPARTMENT) FERN TREMBLAY (ALMGPS) HALLAHAN (EXCAVATOR) TH 23-1 0-16" TOP50IL-FILL

28-98" NO WATER, NO MOTTLING, NO LEDGE

TEST HOLE DATA PERFORMED BY DOANE-COLLINS ENG. ASSOC., LLC & LISA FASULO, SANITARIAN, TOWN OF ESSEX 12/3/14

7 - 32" BROWN, FINE SANDY SUBSOIL

16-28"

7 - 32" BROWN, FINE SANDT SOBSOIL 32 - 84" RED/BROWN, MEDIUM/COARSE SAND, & GRAVEL NO LEDGE OBSERVED NO GROUNDWATER OBSERVED NO MOTTLING OBSERVED	DATED:6-28-23 DEPTH: 26" BEGIN PRESOAK: 10:20
TH #2	<u>PT_1</u>
0 – 6" TOPSOIL 6 – 19" BROWN, FINE SANDY SUBSOIL 19 – 84" RED/BROWN, MEDIUM/COARSE SAND, & GRAVEL NO LEDGE OBSERVED NO GROUNDWATER OBSERVED NO MOTTLING OBSERVED	TIME: DROP: 10:49 ABOUT DRY 10:52 11 5/8" 10:55 13 3/4" 10:50 15 3/8" 11:05 17 3/4"

TEST HOLE DATA DATE:6-28-23 PRESENT: FERN TREMBLAY (ALMGPS), MARY PIZZUTO (EHD), HALLAHAN (EXCAVATOR) HARRY BROOM (CONTRACTOR) KATHERINE HAJJAR

(OWNER

TOPSOIL & FILL ORANGE BROWN SILTY FINE SAND, TRACE GRAVEL ORANGE BROWN COARSE SAND AND GRAVEL WITH SOME FINER SANDS TOWARDS THE BOTTOM OF THE HOLE

NO WATER, NO LEDGE NO MOTTLING

ML55 CALCULATION
RESTRICTIVE LAYER >60", NO ML55 NECESSARY

PERCOLATION TEST DATA

19 5/8" 21 3/8"

PERCOLATION RATE = 5.1 MIN/INCH

SEPTIC SYSTEM DESIGN CRITERIA

PROPOSED 2 BEDROOM GUEST HOUSE

375 S.F. LEACHING AREA REQUIRED

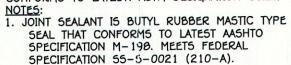
DESIGN PERCOLATION RATE = 5.1 MIN./IN.

PROVIDE 1 RUN 21 L.F. (GEOMATRIX GST 6224)

1,000 GAL. SEPTIC TANK REQUIRED AND PROVIDED

21 L.F. x 18.1 5.F./L.F. = 380.1 5.F. LEACHING AREA

CONFORMS TO LATEST: ASTM DESIGNATION C1227

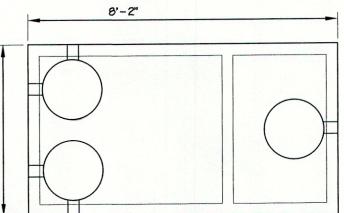


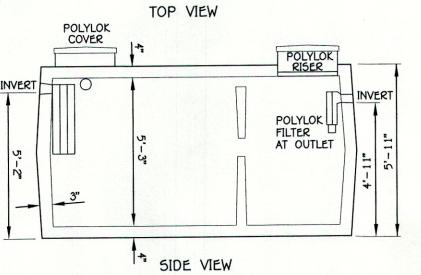
2. PIPE INLET AND OUTLET LOCATIONS HAVE POLYLOK II PIPE SEALS.

3. REINFORCING STEEL DEFORMED BARS CONFORM. TO LATEST ASTM SPECIFICATION A615. 4. REINFORCING STEEL WELDED WIRE FABRIC

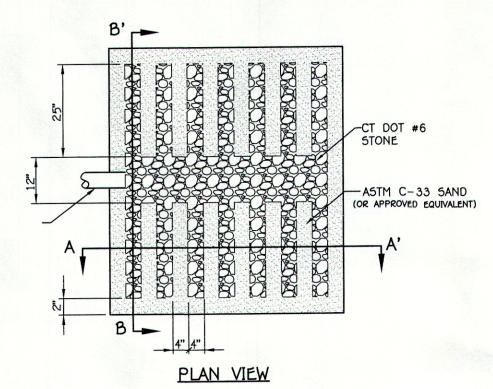
5. CONCRETE COMPRESSIVE STRENGTH- 4000 PSI AT28 DAYS. 6. METHOD OF MANUFACTURE: WET CAST 7. SECTIONS ARE MONOLITHIC. 8. APPROX. TANK WEIGHT: 9500 LB5

CONFORM TO LATEST ASTM SPEC. A185.

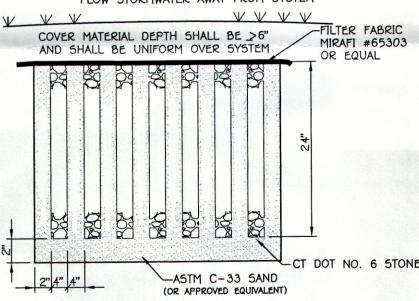




1,000 GAL REGULAR SEPTIC TANK (H20) NOT TO SCALE

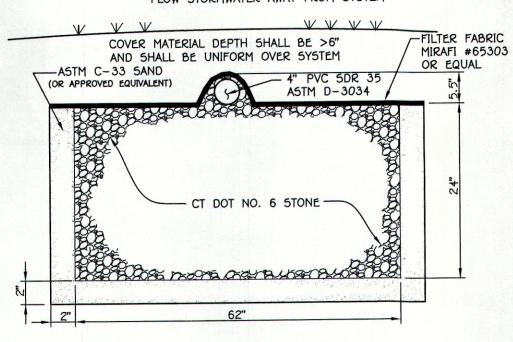


FINISHED GRADE SHALL BE PITCHED TO SHEET FLOW STORMWATER AWAY FROM SYSTEM



A-A' CROSS SECTION

FINISHED GRADE SHALL BE PITCHED TO SHEET FLOW STORMWATER AWAY FROM SYSTEM

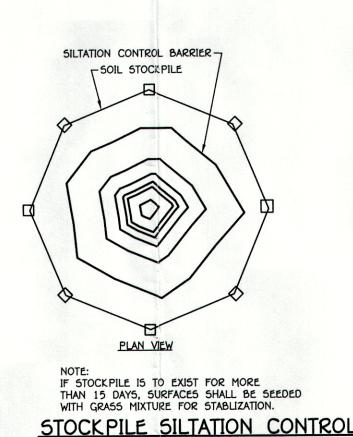


B-B' CROSS SECTION

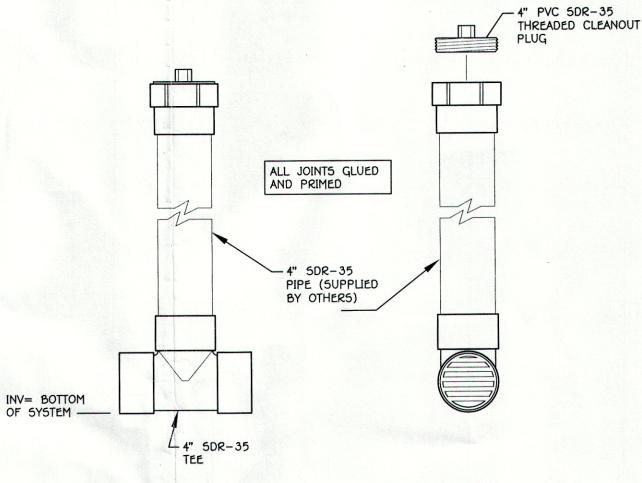
GEOMATRIX GST6224 LEACHING SYSTEM NOT TO SCALE

CODE CONFORMING DESIGN CRITERIA FOR EXISTING HOME EXISTING 3 BEDROOM HOME DESIGN PERCOLATION RATE = 1-10 MIN./IN. 495 S.F. LEACHING AREA REQUIRED PROVIDE 1 RUN 28 L.F. (GEOMATRIX G5T 6224) 28 L.F. x 18.1 S.F./L.F. = 506.8 S.F. LEACHING AREA PROVIDED

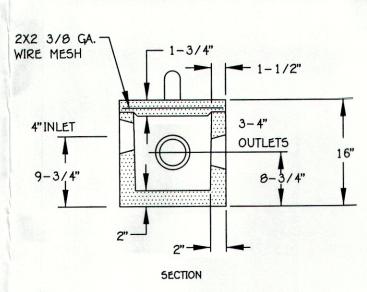
ML55 CALCULATION RESTRICTIVE LAYER >60", NO ML55 NECESSARY



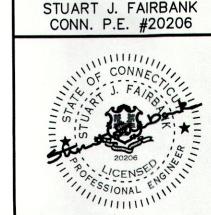
100 PROPOSED 21 L.F. GEOMATRIX GST-622 - NO RESTRICTIVE LAYER ABOVE ELEVATION 90.43 (TH 23-1 ELEV=90.6-0.17=90.43) LEACHING FIELD X-SECTION A-A SCALE: 1"=10' HORIZ. 1"=4' VERT.



' INSPECTION PORT DETAIL NOT TO SCALE



DISTRIBUTION BOX DETAIL NOT TO SCALE



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P.O. BOX 608, 233 BOSTON POST ROAD OLD SAYBROOK, CONNECTICUT 06475 TEL (860) 388-4671 FAX (860) 388-3962

SITE DEVELOPMENT PLAN MAP DEPICTING A PORTION OF PROPERTY OF DAVID P. HAJJAR & KATHERINE A. HAJJAR ATE: JULY 21, 2023

51 RIVER ROAD ESSEX, CONNECTICUT SCALE: 1"=20' APP'D DR'N MCM JOB NO. 236669 REVISIONS: 8-23-23 - proposed house and septic system location revised 9-28-23 - coastal resources and soil type designations added