

_GENERAL

THESE CUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLIUTE ANY WETLANDS, WATERCOURSE, WATERSOOY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND IMMEDIATELY PROVIDE PREVIAMENT AND TEMPORARY POLLUTION CONTROL, MEASUREST OF PREVIAT CONTAINMENT ADJACENT WETLANDS, WATERCOURSES AND WATERGODES, AND TO PREVENT, WISDFAR AS POSSIBLE, ENGOSIO NO THE SITE OF

CONSTRUCTION METHODS, IN GENERAL SAMAL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "DOES OPHICATED TO AUDIENDES FOR SOIL DROSON AND SEMBORALT CONTROL OF STATE OF CONFECTION OF THE STATE OF CONFECTION OF THE STATE OF CONFESSION AND THE CONFESSION AND THE OWNER OF STATE OF THE STATE

LAND GRADING

- THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO DETAIN PLANNED GRADES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING BASIC CRITERIA:
- A) NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE, OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSE OR WATERSCOY.
- B) INSTALLATION OF SEDIMENT AND EROSION CONTROLS SUCH AS HAY BALES AND SLT FENCES SHALL BE ESTABLISHED PRIOR TO COMMENDIANC LAND DISTURBANCE ACTIVITIES. ALL SEDIMENT AND EROSION CONTROL STRUCTURES MUST BE MONITORED AND MAINTAINE BY THE CONTRACTOR UNTIL THE SOLL SURFACE IS STRABILIZED.
- C) HAY BALES SHALL BE STAKED AND SILT FENCES SHALL BE PROPERLY SECURED. SEDIMENT WILL BE REMOVED FROM ALL CATCHIENTS AS NECESSARY.
- D) PRIOR TO ANY REGRADING, STONE APRON SHALL BE PLACED BY THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.
- E) EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SUDING, SETTING OR CRACKING.

- TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH AND MANITEMANCE OF VEGETATION.
- 2. REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS, AND CONSTRUCTION DEBRIS
- 3. APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE
- . TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
- 2. TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
- 3. AN ORGANIC MATTER CONTENT OF OVER TWO (2%) PERCENT IS HIGHLY DESIRABLE. AVOID LIGHT COLORED LOWER SUBSOIL MATERIAL.
- 1. AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
- 2. SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST FOUR (A") INCHES

EROSION CHECKS

TEMPORARY PERHOUS BARREIES USING BALES OF HAY OR STRAW. HELD IN PLACE WITH STAKES BRIVEN THROUGH THE GALES HAD RIVE THE GROUND, OR SEDMENT FILTER FARRIC FASTEMED TO A FENCE POST AND BURBED INTO THE GROUND, SHALL BE INSTALLED AND MANTANDED AS REQUIRED TO CHECK EROSION AND REDUCE SEDMENTATION.

TEMPORARY AND/OR PERMANENT VEGETATIVE COVER

CORENAL:

PREMAMENT VEGETATIVE COVER SMALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROBLET ARE COMPLETED IN ORDER TO STABLIZE THE SOL, REDUCE CONNETSEAN DAMAGE FROM SEEMENT AND REMOTE AND TO BHANCE THE ASSTRUCT MANUE OF THE STILL IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSON WHERE FINAL GRADNEN AS EXECUTION FROM STABLED AND A PERMANENT COVER IS NEEDED.

- 1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
- REMOVE LOSSE ROCK, STONE AND CONSTRUCTION DEBRIS FROM AREA.

 PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.

 APPLY TOPSOIL AS INDICATED ELSEWHERE HERBIN.
- 5. APPLY FERTILIZER ACCORDING TO SOIL TEST OR:

SUNNY TO PARTIALLY SUNNY SITES

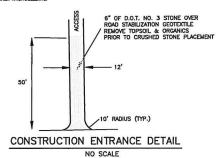
— SPRING SEEDING.
WORK DEEPLY IN SOIL BEFORE SEEDING, 300 LBS OF 10-10-10 FERTILIZER PER ACRE.
(7 LBS PER 1,000 SOULARE FEET): THEN SX (6) TO EIGHT (6) WEXIS LATER APPLY ON THE SURFACE AN ADDITIONAL 300 LBS OF 10-10-10 TERTILIZER PER ACRE.

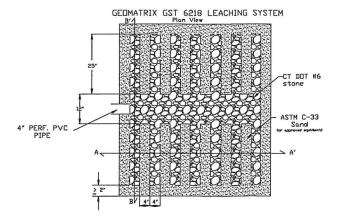
- FALL SEEDING: WORK DEPLY IN SOIL, BEFORE SEEDING, 600 LBS OF 10-10-10 FERTILIZER PER ACRÉ (14 LBS PER 1.000 SOUJARE FEET).

- SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
- 2. SELECT ADAPTED SEED MIXTURE AS FOLLOWS. NOTE RATES AND THE SEEDING DATES. LBS./ACRE LBS./1000 S.F.

0.50 0.50 0.10

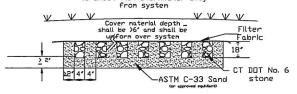
- 3. FINAL SEEDING SHALL TAKE PLACE PRIOR TO OCTOBER 1ST AS SEEDING AFTER THIS DATE RINS A DETRICT CHANGE OF FALLIER DUE TO ADVERSE MEATHER. MIT AREAS THAT WE DISTURDED ENTENDED COTES ST AND AREA IST SHALL BE STANDLED BY THAT HE DATE OF THE SHALL BE STANDLED BY THAT HE WHICH WILL HAVE TO BE REMOVED BEFORE FINAL SEEDING AND THEN REPLACED AFTER FINAL SEEDING.
- 4. APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
- COVER CRASS AND LEGUME SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
- MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO THE GUIDELINES IN THE "GUIDELINES".
- 7. USE PROPER INOCULANT ON ALL LEGUME SEEDINGS, USE FOUR (4) TIMES NORMAL RATE WHEN HYDROSSFEING.



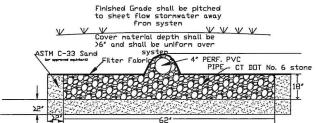


GEOMATRIX GST "6218 LEACHING SYSTEM

Finished Grade shall be pitched to sheet flow stormwater away



GEDMATRIX GST "6218 LEACHING SYSTEM B-B' CROSS SECTION



NOTES: (THE FOLLOWING NOTES MAY APPLY) THE LEACHING AREA IS TO BE STRIPPED OF ALL UNSUITABLE SOILS AND FILLED WITH GLEAN SAND, LAD IN SX UNON LIFES. FILL TO BE MECHANICALLY COMPACTED TO 90% MAXIMUM DENSITY. A MINIMUM SEPERATION DISTANCE OF 18" BETWEEN THE MOTTUN WATER LAYER AND BOTTOM OF THE LEACHING ARE MUST BE MAINTAINED.

INSTALLATION OF ALL SEWAGE DISPOSAL SYSTEMS SHALL NOT OCCUR DURING WET WEATHER TO AVOID SOIL SMEARING.

FILLING OF STRIPPED AREAS SHALL NOT BE PERMITTED WHILE SMEARING OF THE SOILS OCCURS, ALL SMEARED SURFACES SHALL BE RAKED OR PLOWED PRIOR TO ANY FILLING AND AS DIRECTED BY THE TOWN HEALTH DEPARTMENT.

1. THE FILL SHALL HOT CONTAIN ANY MATERIAL LARGER THAN THREE (3) INGES.

2. UP TO 45% OF THE DRY INSOLIT OF THE REPRESENTATION SAMPLE MAY BE RETUNNED ON THE MAY

5. SINCE (THIS IS THE GRANGE PROTRIOG THE SAMPLE).

3. THE MATERIAL THAT PASSES THE M SENCE IS THEN REDUCED AND THE SENCE AMALYSIS STARTED.

4. THE REMAINING SAMPLE SHALL BEST THE TULLDHING GRUDATION CRITERAR.

PERCENT PASSING 100 70% - 100% 10% - 50% 0% - 20% 0% - 5% 100 70% - 100% 10% - 75% 0% - 5% 0% - 2.5%

MOTE: PERCENT PASSING THE #40 SEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SEVE DOES NOT EXCEED 10% AND THE #200 SEVE DOES NOT EXCEED 5%

THE RESPONSIBILITY FOR THE PREPARATION OF A LEACHING AREA UTILIZING "SELECT MATERIAL" IS THAT OF THE LICENSED INSTALLER. THE INSTALLER SHALL TAKE THE NECESSARY STEPS TO PROTECT THE UNDERLYING NATURALL OCCURRING SOLS FROM OMEROMACTION AND SULTAINCH ONCE DEPOSED.

B. ENDS OF GST TRENCH TO BE CAPPED

Geomatrix GST^{FM} Leaching System Installation Instructions This installation procedure serves as a general overview of the installation procedure for Geomatrix GST. The system drawings should be strictly adhered to and an authorized representative of Geomatrix Systems, LLC must be present unless the ontractor is certified by Geomatrix Systems.

- I Layout system 2 Prepare site and remove any trees with a drip line falling within 10 feet of the
- 2 Prepare site and remove any trees with a drip line falling within 10 feet of the leaching system.
 3 Excavate trench to specified elevation and a minimum of 66° wide.
 4 Rake/searily sidewall and bottom of trench to address any smearing of fines, and then do not walk in trench bottom.
 5 Install a minimum of 2° of ASTM C-33 sand or CT approved select fill (select fill) in the bottom of the excavation and rake the sand bed level.
 6 Set string and place wood strips along both sides of system location.
 7 Set the GST forms on top of wood strips.
 8 Place ASTM C-33 sand into void space between trench sidewall and GST form, including the area between what will become the stone fingers and uniformly compact.

- including the area ecenters are the interior of the GST form.

 9 Place clean CT DOT #6 slone into the interior of the GST form.

 10 Pull first form and "leap frog" GST form ahead of last GST form.

 11 Repeat sequence until desired trench length is installed.

 12 Install distribution priping on top of, and in the center of, the GST leaching system.

 13 Place stone around the distribution pipe.

 14 Put approxed filter fabric over the system.

 15 Backfill system to ensure uniform cover exists over the top of the system (a minimum of 6' is required should ensure that storm water and sheet flow are discreted away from the leaching system, septic tank and pump tank if present. diverted away from the leaching system, septic tank and pump tank if present 17 Seed grass over disturbed area.
- 18 Maintain the area to prevent against tree roots from impacting the system.

 19 Properly service the septic tank every 3 5 years or as advised by the regulatory
- agency or your service provider.

 20 Fix leaking plumbing fixtures immediately.

*Notes: If the GST is to be installed under an area where vehicle traffic is likely, a minimum of 12" of cover as shown in H-20 detail is recommended to prevent soil

compaction adjacent to the infiltrative surface.

Discharging a garbage disposal and/or water softener into septic system and GST leach field is NOT recommended.

SANITARY SYSTEM DESIGN

PERCOLATION RATE 1.0-5.0 MIN. /IN. ABSORPTION AREA REQUIRED_____ 577.5 S.F. USE GEOMATRIX GST 6218 0 14 SF/LF______ 41 L.F. REQ'D USE 1 TRENCHES 0______ 41 L.F. EACH

SANITARY SYSTEM ELEVATIONS

157.8 BOTTOM OF TRENCH_ FL. DISTRIBUTION LINE ____ 155.5 DIST. BOX OUT (DISTRIBUTION LINE) 155.5 155.65 157.5 SEPTIC TANK OUTLET_____ SEPTIC TANK INLET____ 158.5 (min.) FL 4" C.I.P. @ FDN. WALL____ 162.5 TOP OF FOUNDATION_____ BASEMENT FLOOR_____ TOP OF SEPTIC TANK_____ 158.5±

NOTE: BOTTOM OF LEACHING TRENCHES TO EXTEND NO DEEPER THAN 2" BELOW EXISTING GRADE.

CORRECT.

OF MY

ENGINEERS,

CIVIL

WENTWORTH

177 WEST TOWN STREET LEBANON, CT 06249 PHONE (860)-642-7255

NOTE: EXISTING GROUND ELEVATIONS INTERPOLATED FROM EXISTING FIELD

NOTE: SEPTIC TANK MANHOLE RISERS ARE TO BE EXTENDED TO WITHIN 1.0 FEET OF FINISHED GRADE.

NOTE: BENCHMARK IS TO BE SET WITHIN 40 FEET OF LEACHING FIELD AT TIME OF CONSTRUCTION STAKE-OUT.

MLSS CALCULATIONS

RESTRICTIVE LAYER GREATER THAN 60" - MLSS DOES NOT APPLY

SOILS DATA BY UNCAS HEALTH AND WESLEY J. WENTWORTH WESLEY J. WENTWORTH, PE DATE: 9-27-22

| TP | 101 | O = 7" | TOPSOIL | TOPS

GROUNDWATER: NONE OBSERVED MOTTLES: NONE OBSERVED ROOTS: 52" LEDGE: NONE OBSERVED

TP 102 0 -10" TOPSOL 10-32" ORANGE BROWN MEDIUM SANDY LOAM 32-64" SILTY SAND

GROUNDWATER: NONE OBSERVED MOTTLES: 46" ROOTS: 46" LEDGE: NONE OBSERVED RESTRICTIVE LAYER: 46"

TP 103 0 -10" TOPSOIL 10-42" ORANGE BROWN MEDIUM SANDY LOAM 42-80" CLEAN MEDIUM SAND

Groundwater: None Observed Nottles: None Observed Roots: 48" Ledge: None Observed

| JOB NO | 2022-011 | TEST HOLE NO. PT 10 |
|-------------|--------------|---------------------|
| DATE:S | mm | BY: NAM |
| DEPTH OF H | ar 2 | r |
| PERCOLATION | TEST - 0040. | MORST |
| TIME | READING | PRESONK @ _1:24 |
| 1:44 | 12" | |
| | | 1. |
| 1:54 | 17-1/2 | 1 |
| 1:54 | 21° | 2.0 min./h. |
| | | 2.0 min./n. |
| 2:04 | 21° | 2.0 min./n. |
| 2:04 | 21° | 2.9 min./n. |
| 2:04 | 21° | 2.9 min./in. |
| 2:04 | 21° | 2.9 mán,/in. |
| 2:04 | 21° | 2.9 min./n. |

NOTES & DETAILS
PREPARED FOR
PETER KUJAWA
236 PRESTON ALLEN RC
LISBON, CONNECTICE

DATE: 11-09-22 SCALE: SHOWN SHEET 2 OF 2

MAP NO. 22-011-1F