

**CULTEC CONTACTOR 100 NOTES**

THE CONTRACTOR/INSTALLER SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT EQUIPMENT AND/OR VEHICLES DO NOT DRIVE OVER THE LEACH CHAMBERS ONCE INSTALLED.

INSTALLATION & MATERIALS TO BE IN COMPLIANCE WITH CULTREC INSTALLATION INSTRUCTIONS & SPECIFICATIONS AND D.E.P. CULTREC APPROVAL LETTER #9 DATED FEBRUARY 3, 2016.

**- SYSTEMS IN FILL -**

- 1- EXCAVATION TO BE DRY AND SCARIFIED.
- 2- FILL TO BE STOCKPILED AT THE EDGE OF FOUNDATION AND PUSHED OR CAST INWARD OVER EXCAVATED AREA.
- 3- FILL SHALL NOT BE PLACED DURING RAIN OR SNOW STORMS.
- 4- DEWATERING REQUIRED IF FILL IS TO BE PLACED BELOW GROUND WATER.

**- FILL SPECIFICATIONS -**

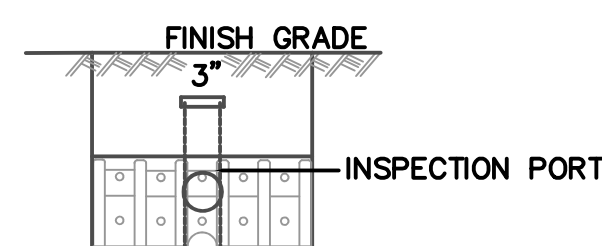
THE FILL SHALL BE COMPRISED OF CLEAN GRANULAR SAND, FREE OF ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOIL SHALL NOT BE USED. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN TWO INCHES. A SIEVE ANALYSIS, USING A #4 SIEVE, SHALL BE PERFORMED ON REPRESENTATIVE SAMPLE OF THE FILL UP TO 45% BY WEIGHT OF THE FILL SAMPLE MAY BE RETAINED ON THE #4 SIEVE. SIEVE ANALYSIS ALSO SHALL BE PERFORMED ON THE FRACTION OF THE FILL SAMPLE PASSING THE #4 SIEVE, SUCH ANALYSIS MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS.

SIEVE SIZE	EFFECTIVE PARTICLE SIZE	% THAT MUST PASS SIEVE
# 4	4.75 mm	100%
#50	0.30 mm	10% - 100%
#100	0.15 mm	0% - 20%
#200	0.075 mm	0% - 5%

**IN ACCORDANCE WITH 310 CMR 15.211. GENERAL CONSTRUCTION REQUIREMENTS**

SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED. MAGNETIC MARKING TAPE SHALL BE PLACED ABOVE THE OUTSIDE PERIMETER OF THE SEPTIC TANK, DISTRIBUTION BOX AND ABOVE ALL PIPING BEGINNING AT THE FOUNDATION THROUGH TO THE END OF EACH DISTRIBUTION LINE.

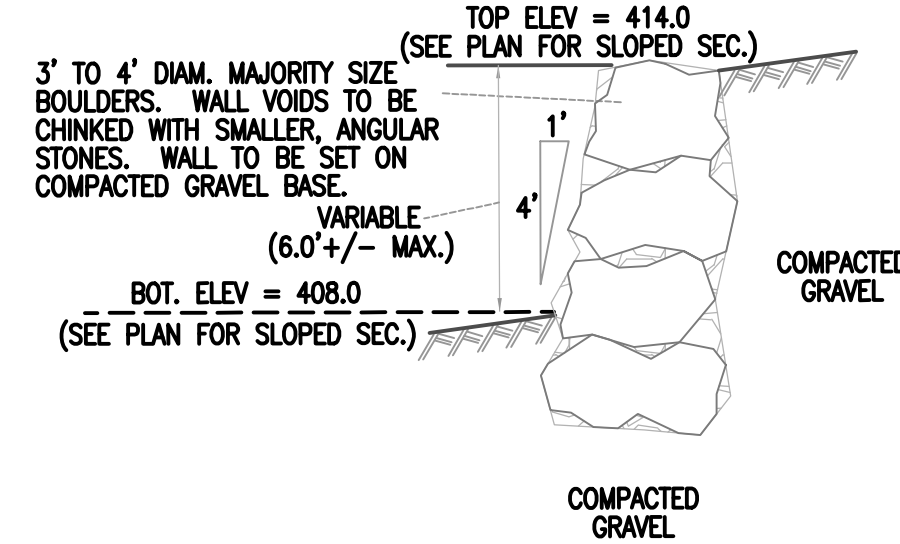
**INSPECTION PORT DETAIL**



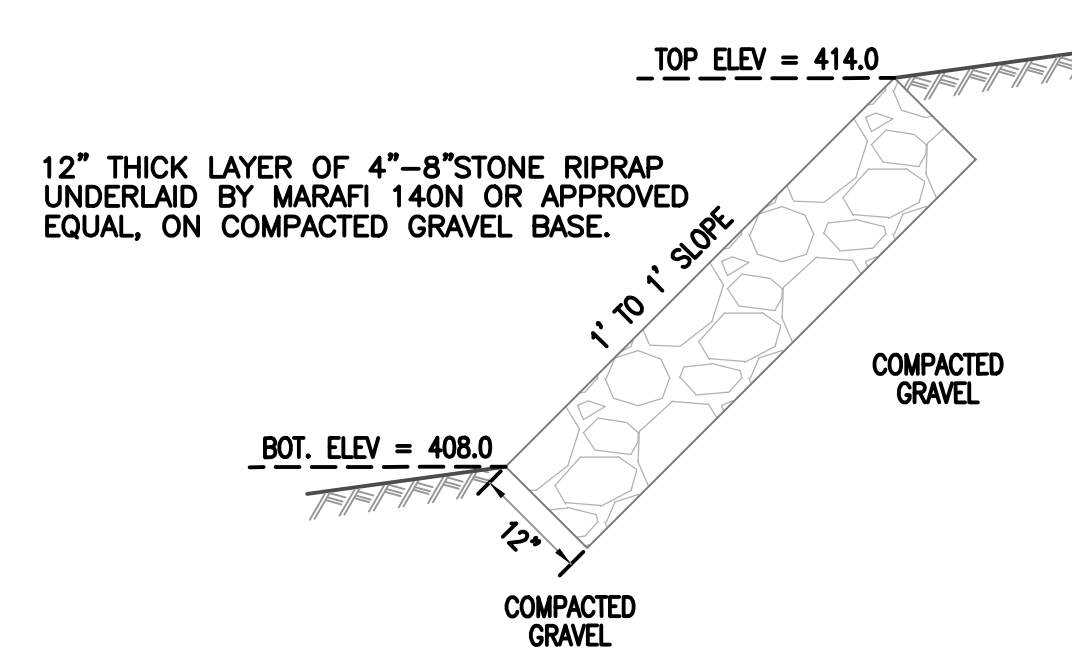
**- INSPECTION PORT -**

310 CMR 15.240 (13) - ALL SOIL ABSORPTION SYSTEMS SHALL HAVE A MINIMUM OF ONE INSPECTION PORT CONSISTING OF A PERFORATED FOUR INCH PIPE PLACED VERTICALLY DOWN INTO THE STONE TO THE NATURALLY OCCURRING SOIL OR SAND FILL BELOW THE STONE. THE PIPE SHALL BE CAPPED WITH A SCREW TYPE CAP AND ACCESSIBLE TO WITHIN THREE INCHES OF FINISH GRADE.

**STACKED BOULDER RETAINING WALL DETAIL**

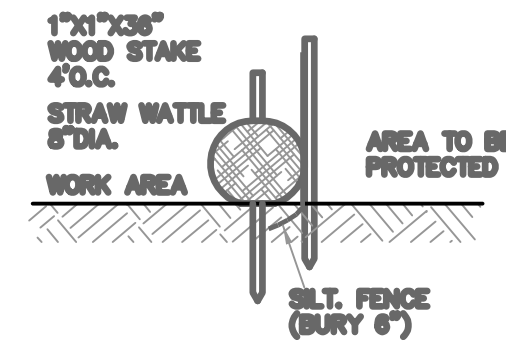


**1' TO 1' SLOPED STONE RIP RAP**

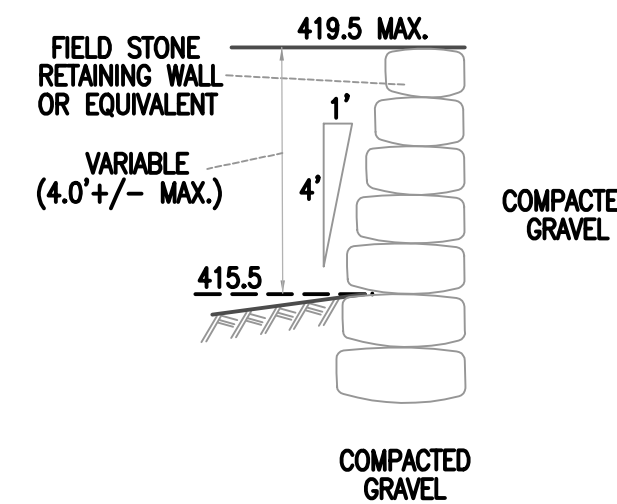


**EROSION CONTROL BARRIER (ECB)**

100% BIODEGRADABLE MATERIALS - NO SYNTHETIC MATERIALS



**FIELD STONE RETAINING WALL DETAIL**



**CULTEC CONTACTOR 100 CHAMBER PRODUCT SPECIFICATIONS**

**GENERAL**  
CULTEC CONTACTOR 100 CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER AND/OR ON-SITE WASTEWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION, AND CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF OR AS SEPTIC LEACHFIELDS.

- CHAMBER PROPERTIES**
1. THE CHAMBERS WILL BE MANUFACTURED BY CULTREC, INC. OF BROOKFIELD, CT (203-775-4416).
  2. CONTACT CULTREC, INC. AT 203-775-4416 FOR SUBMITTAL PACKAGES AND TO PURCHASE PRODUCT.
  3. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTREC CONTACTOR 100 SHALL BE 12.5 INCHES TALL, 36 INCHES WIDE AND 8 FEET LONG. THE INSTALLED LENGTH OF INTERMEDIATE UNITS SHALL BE 7.4 FEET FOR STANDARD-DUTY AND 7.5 FEET FOR HEAVY-DUTY.
  4. THE CONTACTOR 100 COMES STANDARD WITH A 4.5 INCH INLET/OUTLET OPENING. THE OPENING MAY BE INCREASED TO 10 INCH MAXIMUM DIAMETER.
  5. THE CHAMBER WILL HAVE 16 CORRUGATIONS.
  6. THE NOMINAL STORAGE VOLUME OF THE CONTACTOR 100 STANDARD-DUTY WILL BE 1.961 CF/FT; THE CONTACTOR 100 HD WILL BE 1.866 CF/FT.
  7. THE CHAMBERS WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) IN AN ISO-9001:2000 CERTIFIED FACILITY.
  8. CHAMBERS ARE MANUFACTURED WITH AN OPEN BOTTOM, INTEGRALLY FORMED END WALLS AND PERFORATED SIDEWALLS.
  9. THE CHAMBERS MUST HAVE ACHIEVED A MINIMUM OF 5 YEARS INSTALLATION HISTORY WITHOUT STRUCTURAL DEFICIENCIES.
  10. THE CHAMBERS WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
  11. THE CHAMBER'S END WALL WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE INLET OR END PLATES CANNOT BE USED WITH THIS UNIT.
  12. THE CONTACTOR 100R STARTER CHAMBER MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL END WALLS, AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
  13. THE CONTACTOR 100E MIDDLE/END CHAMBER MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL END WALL, AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
  14. ALL CHAMBERS WILL BE ARCHED IN SHAPE. THE HEAVY-DUTY VERSION WILL HAVE FIFTY-SIX 7/8 INCH ROUND DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE INFILTRATION/EXFILTRATION; THE STANDARD-DUTY VERSION WILL HAVE THIRTY 7/8 INCH ROUND DISCHARGE HOLES.
  15. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
  16. CONTACTOR 100HD HEAVY-DUTY CHAMBERS ARE DESIGNED TO WITHSTAND AASHTO H-20 LOAD RATING (32,000 LBS./AXLE) WHEN INSTALLED ACCORDING TO CULTREC'S MOST CURRENT INSTALLATION INSTRUCTIONS. CONTACTOR HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
  17. CONTACTOR 100 STANDARD-DUTY CHAMBERS ARE DESIGNED TO WITHSTAND AASHTO H-10 LOAD RATING (16,000 LBS./AXLE) WHEN INSTALLED ACCORDING TO CULTREC'S MOST CURRENT INSTALLATION INSTRUCTIONS.
  18. POLYETHYLENE CHAMBERS MUST HAVE THE ABILITY TO ACCEPT AND CARRY PIPE THROUGH ITS INTEGRALLY FORMED VERTICAL SUPPORT WALL WITHOUT THE USE OF SEPARATE PIPE HANGERS.
  19. UNITS WILL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
  20. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
  21. REPEATING SUPPORT PANELS AND END WALLS OF THE ELONGATED CHAMBER SHALL BE SPACED EVERY 7.4 - 7.5 FEET, DEPENDING ON STANDARD OR HEAVY-DUTY MODEL.

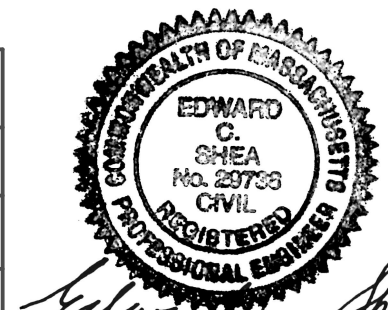
APPLICANT	LEGEND
SYLVAN SPRINGS REALTY TRUST 148 PARK ST NORTH READING, MA.	
<b>SITE</b>	
LOT 60 / HSE.#12 LOCUST HILL DRIVE MENDON, MA.	<b>BENCH MARKS : USGS DATUM</b> SPIKE IN 14" ASH / SPIKE IN 8" OAK ELEV.=406.88 / ELEV.=421.40

**~ IA SYSTEM ~  
SEWAGE DISPOSAL PLAN  
IN  
MENDON, MA**

SCALE 1" = 20' JUNE 23, 2020

I CERTIFY THAT THE SEWAGE DISPOSAL FACILITY IS DESIGNED IN ACCORDANCE WITH TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND THE REGULATIONS OF THE MENDON BOARD OF HEALTH.  
NOTE: THIS PLAN WAS MADE FROM A TAPED SURVEY AND NOT FROM AN INSTRUMENT PROPERTY LINE SURVEY AND IS DRAWN FOR SEWAGE DISPOSAL PURPOSES ONLY AND NOT FOR PROPERTY LINE DETERMINATION.

APPROVED  
DISAPPROVED  
DATE  
SIGNED



**Shea** ENGINEERING & SURVEYING INC.  
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