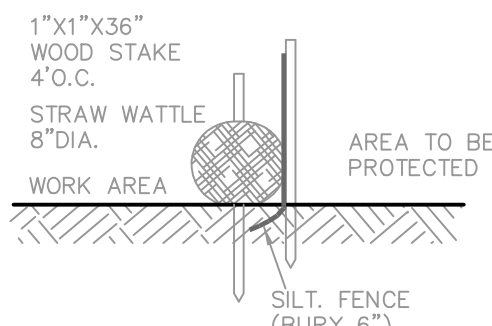
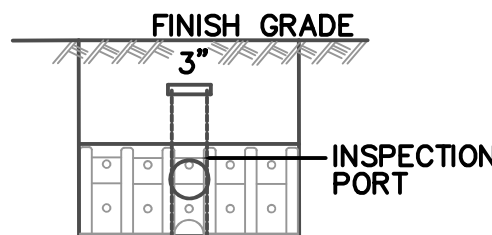


LOCUS (N.T.S.)



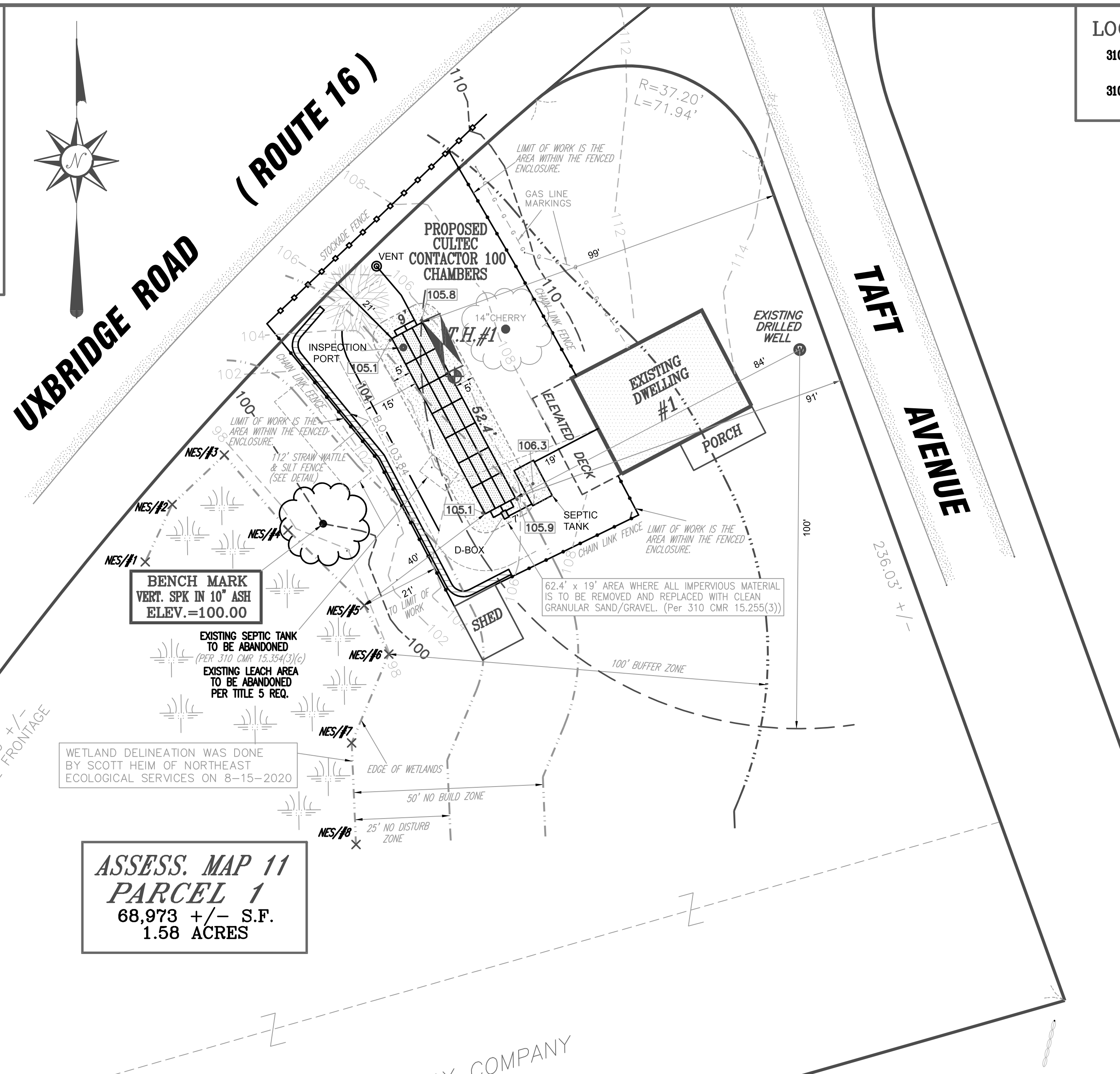
EROSION CONTROL BARRIER (ECB)
100% BIODEGRADABLE MATERIALS - NO SYNTHETIC MATERIALS

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.



**ASSESS. MAP 11
PARCEL 1
68,973 +/- S.F.
1.58 ACRES**

LOCAL UPGRADE REQUESTED
310 CMR: 15.405 (1)(e) - REDUCTION IN THE SEPARATION DISTANCE BETWEEN LEACH SYSTEM LOCATION AND EDGE OF WETLANDS. (40' REQUESTED - 50' REQUIRED)
310 CMR: 15.405 (1)(g) - REDUCTION IN THE SEPARATION DISTANCE BETWEEN LEACH SYSTEM LOCATION AND PRIVATE WATER SUPPLY WELLS. (84' REQUESTED - 100' REQUIRED)

CONSERVATION COMMISSION LEGEND

	EDGE OF BORDERING VEGETATED WETLANDS
	EDGE OF 100' BUFFER ZONE
	STAKED SILTATION BARRIER (STRAW WATTLES)

Stabilization

- Max sloping is to be 3:1
- All sloping and disturbed areas to be loamed, seeded, fertilized and mulched.
- Stabilization of disturbed areas shall be checked throughout construction phases until vegetation is established and repaired as needed.

- 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%

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 DATED MARCH 31, 2016.

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.

NOTES:

ANY UNDERGROUND UTILITIES TO BE ACCURATELY LOCATED PRIOR TO CONSTRUCTION BY CONTRACTOR

THERE ARE NO OTHER KNOWN WELLS WITHIN 200' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.

THERE ARE NO KNOWN SEWAGE DISPOSAL SYSTEMS WITHIN 100' OF THE PROPOSED WELL.

AN AS-BUILT PLAN WILL BE REQUIRED

THERE WERE NO WETLANDS OBSERVED WITHIN 100' OF ANY PROPOSED CONSTRUCTION, OTHER THAN THOSE SHOWN.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT DIG SAFE AND LOCATE ALL UTILITIES BEFORE EXCAVATION. 1 800 DIG-SAFE

ABANDONMENT OF THE EXISTING SEPTIC SYSTEM IS TO BE IN ACCORDANCE WITH 310 CMR 15.354. ABANDONMENT OF SYSTEMS

NOTE: WATER CONSERVATION IS RECOMMENDED (LOW FLUSH TOILETS, LOW FLOW SHOWERS ETC.)

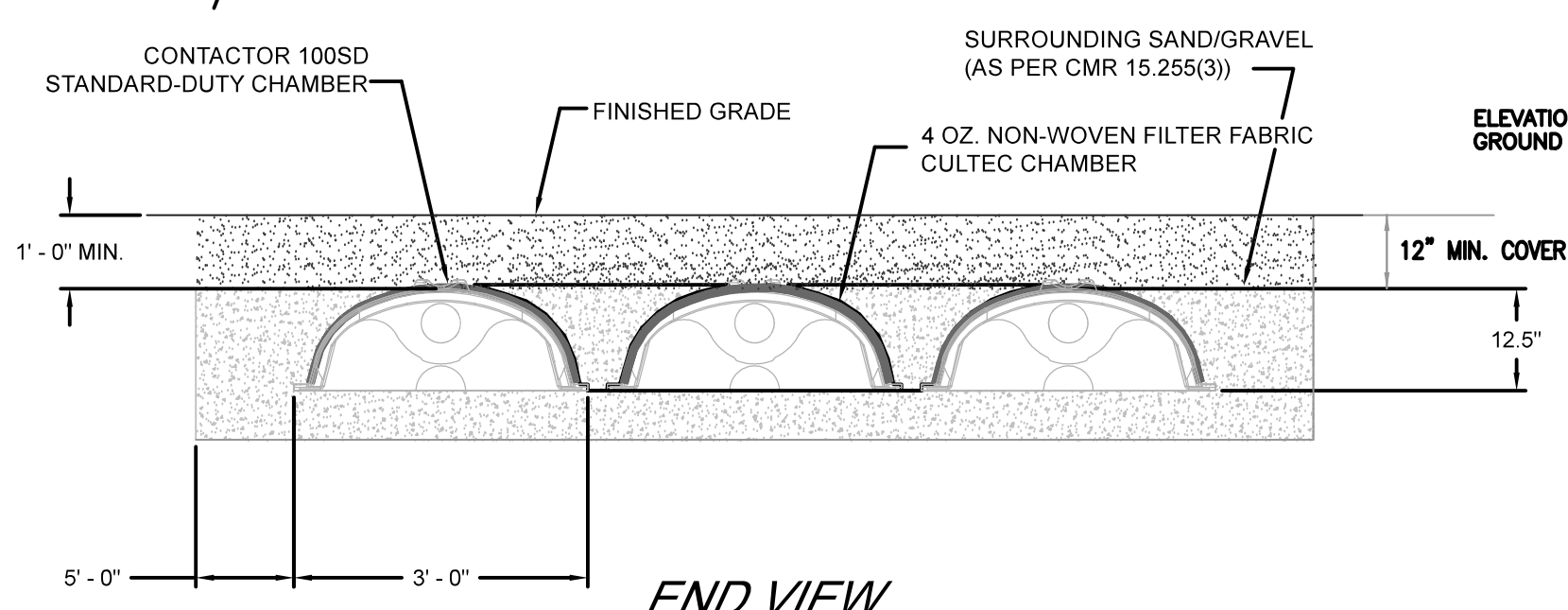
(SEPTIC TANK TO BE PUMPED AND OUTLET EFFLUENT FILTER TO BE CLEANED AS NEEDED BUT AT LEAST EVERY ONE - TWO YEARS)

BUOYANCY CALCULATIONS
BOTTOM, INSIDE SEPTIC TANK IS ABOVE ESTIMATED HIGH GROUND WATER
BUOYANCY - 1500 GAL. SEPTIC TANK
0.0' x 10' x 5.2' = 00 C.F.
00 C.F. x 62.4 P.C.F. = 0,000 LBS.
1500 GAL. H-20 SEPTIC TANK=11,400 LBS.
+ SOIL FRICTION
+ SOIL WEIGHT (COVER)

The tees in the septic tank shall be brought to the middle of the manhole openings.

* COVER OVER SYSTEM COMPONENTS ARE NOT TO EXCEED 36 INCHES.

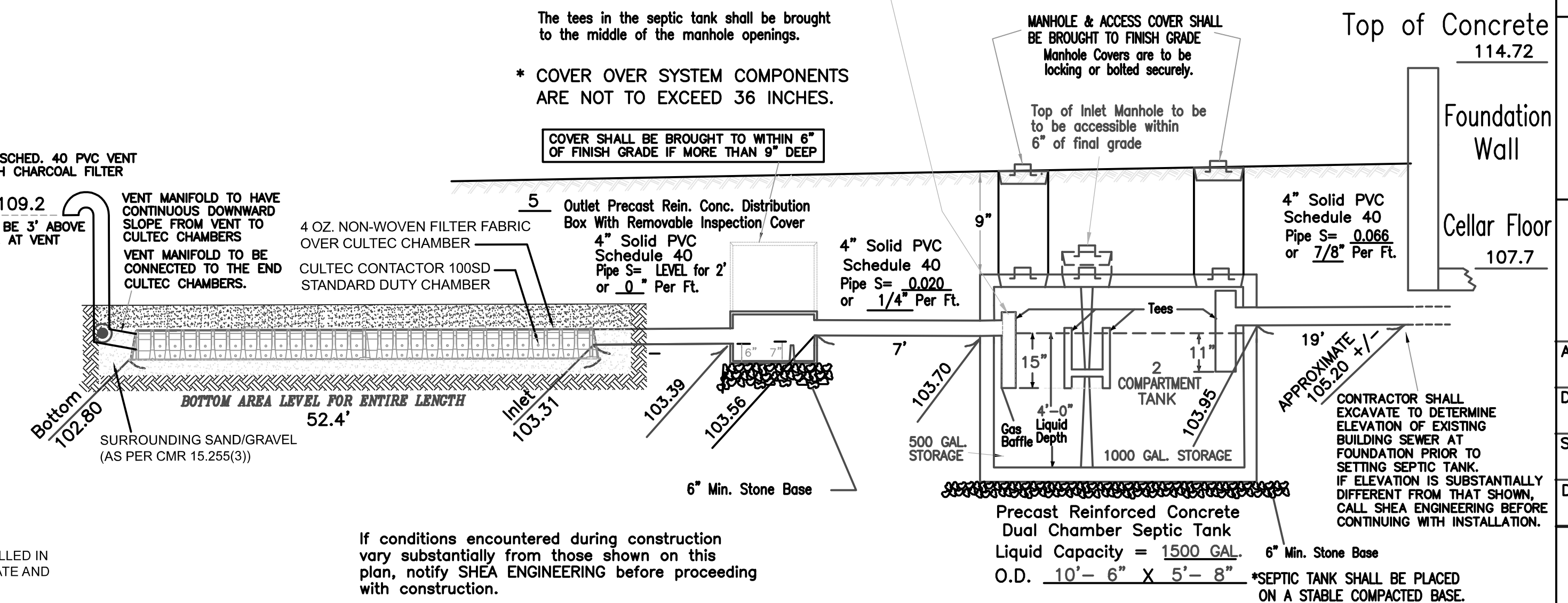
COVER SHALL BE BROUGHT TO WITHIN 6" OF FINISH GRADE IF MORE THAN 9" DEEP



END VIEW

GENERAL NOTES
CONTACTOR 100SD BY CULTREC, INC. OF BROOKFIELD, CT. STORAGE PROVIDED = 3.90 CF/FT PER DESIGN UNIT. REFER TO CULTREC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.

ALL CONTACTOR 100 CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.



If conditions encountered during construction vary substantially from those shown on this plan, notify SHEA ENGINEERING before proceeding with construction.

I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310 CMR 15.017 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.017. I FURTHER CERTIFY THAT THE RESULTS OF MY SOIL EVALUATION, AS INDICATED ON THE ATTACHED SOIL EVALUATION FORM, ARE ACCURATE AND IN ACCORDANCE WITH 310CMR 15.100 THROUGH 15.107.

SIGNATURE _____ DATE _____

TEST HOLE 1

0"	105.7
FILL	
84"	98.7
A 10YR 2/1 FINE SANDY LOAM	97.7
96"	
C 2.5Y 6/2 LOAMY SAND	
144"	93.7

PERC - 10 M.P.I.

Soil Evaluator - JUSTIN LAPHAM
Witness - LENNY IZZO
Date of Test - 8/12/20
Perc Rate - 10 M.P.I.
Design Rate - 0.60 LTAR (CLASS II SOILS)
Design G.W. - 84" at highest ground over new leach system / ELEV = 98.8
Original "A" - 84" / ELEV = 98.7

CONSTRUCTION NOTES

ALL TOPSOIL AND SUBSOIL OR ANY OTHER IMPERVIOUS MATERIAL BELOW THE TOP OF THE PEASTONE AND FOR A DISTANCE OF 5' IN ALL DIRECTIONS FROM THE LEACHING FACILITY TO BE REMOVED AND REPLACED WITH CLEAN GRANULAR SAND/GRAVEL.

- THE FOLLOWING INSPECTIONS IF CHECKED ARE REQUIRED BY THE BOARD OF HEALTH.
- 1. After Excavation
 - 2. After Pipe And Stone Placement
 - 3. After Final Grading 24 hr. Notice Required

DESIGN CRITERIA	Total Daily Flow
4 Existing Bdrms x 110 Gal/Bdrms/Day	= 440 Gal/Day
Leach Bed Length 52.4' Width 9'	
Depth Below Inlet 6"	
Leach Chamber Bed Configuration = 472 S.F.	
Effective Leaching Area is equal to 1.67 times Bottom Width Only. 52.4' x (9' x 1.67) = 788 S.F. Effective Leaching Area	
788 S.F. x 0.60	= 473 Gal/Day
Total Leaching Area	gpd/Sq.Ft. Total Leaching Capacity

* GARBAGE GRINDERS NOT ALLOWED / TO BE REMOVED IF ONE EXISTS

APPLICANT

CAMERON O. & DEBORAH A. GAULTZ
1 TAFT AVENUE
MENDON, MA.

SITE

1 TAFT AVENUE
MENDON, MA.

LEGEND

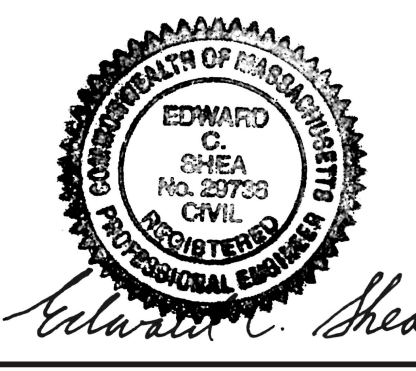
	FLOW DIRECTION
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEV.
	DEEP HOLE
	PERC HOLE
	BENCH MARKS: ASSUMED DATUM
	VERT. SPIKE IN 10" ASH ELEV.= 100.00
	TOP OF FOUNDATION ELEV.= 114.72

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

SCALE 1" = 20' SEPTEMBER 8, 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 NOT MADE FROM AN INSTRUMENT PROPERTY LINE SURVEY AND IS DRAWN FOR SEWAGE DISPOSAL PURPOSES ONLY AND NOT FOR PROPERTY LINE DETERMINATION.

APPROVAL _____
DISAPPROVAL _____
SIGNATURE _____
DATE _____



Shea ENGINEERING & SURVEYING, INC.
76 UXBRIDGE ROAD, MENDON, MASS. - (508) 473-1163
GAULTZ - 1 TAFT AVENUE - MENDON