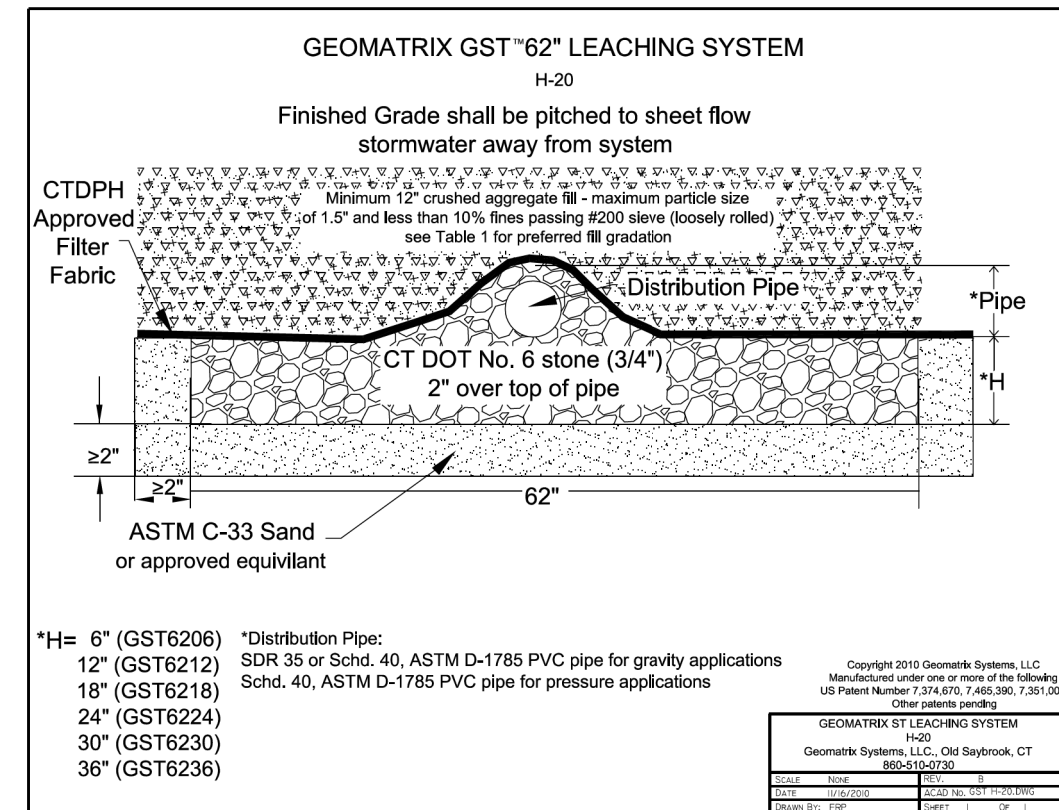
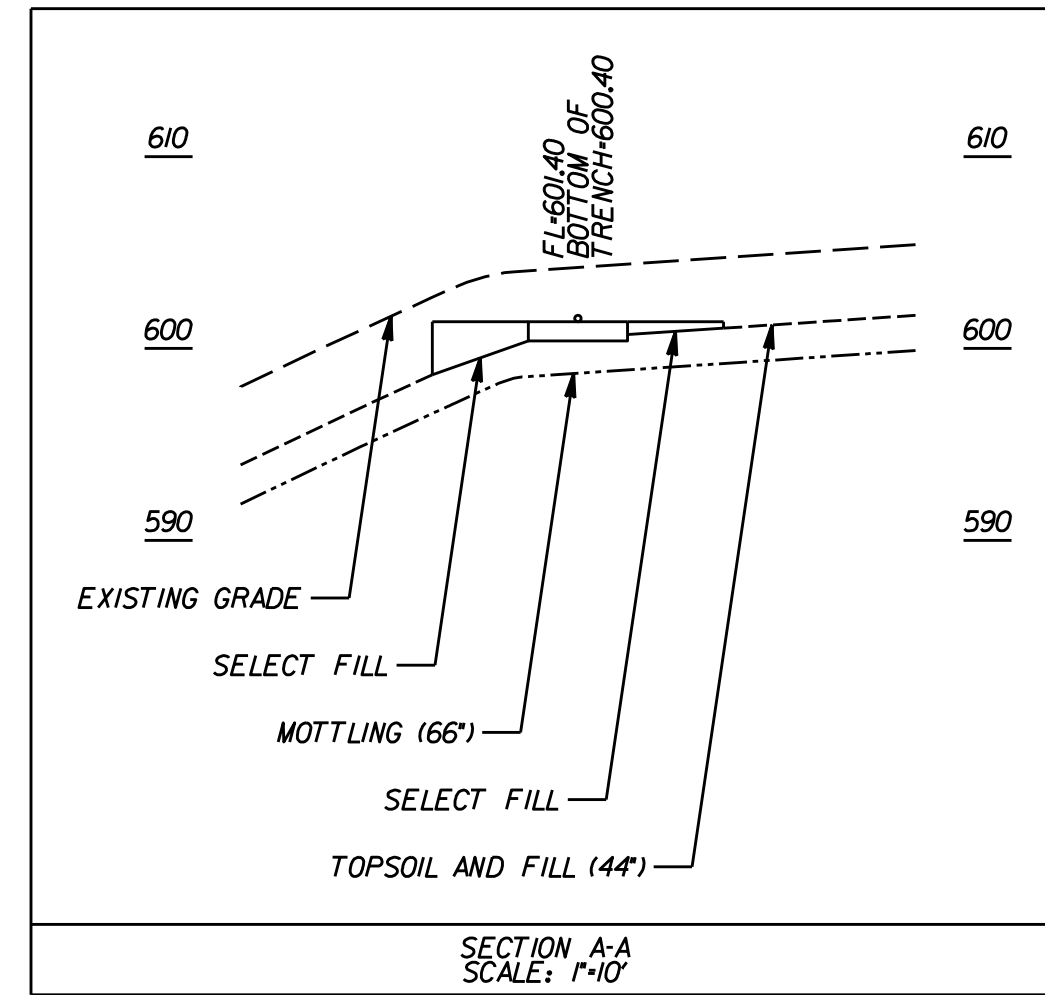


SEPTIC NOTES

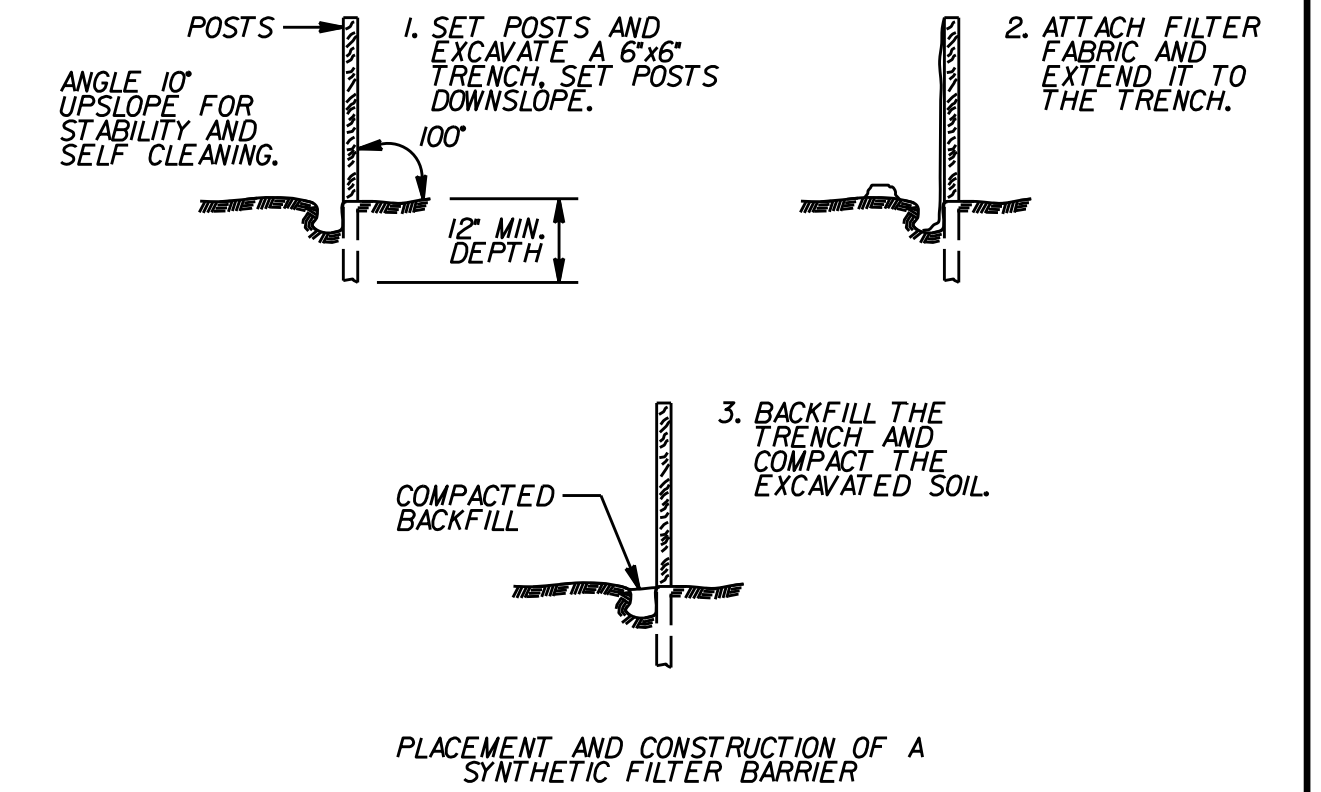
1. MINIMUM SEPARATION FROM WELL TO SEPTIC SYSTEM - 75'.
2. ALL MATERIAL NOT REQUIRED FOR GRADING WILL BE REMOVED.
3. THE CONSTRUCTION ENTRANCE PAD SHALL BE CONSTRUCTED AT THE DRIVEWAY LOCATION, NO OTHER AREA WILL BE ACCEPTABLE.
4. THE PROPOSED SEPTIC SYSTEM IS IN THE SAME GENERAL AREA OF THE TEST HOLES OBSERVED.
5. THERE ARE NO EXISTING WELLS WITHIN 75' OF THE PROPOSED SEPTIC SYSTEM.
6. THERE ARE NO APPARENT SOURCES OF POLLUTION WITHIN 75' OF THE PROPOSED WELL ON ADJACENT LOTS.
7. CONTOURS IN THE AREA OF THE PROPOSED ACTIVITY WERE FIELD SURVEYED.
8. PROVIDE A CLEANOUT CHIMNEY FOR SEPTIC TANK TO APPROXIMATELY 12" BELOW GRADE.
9. THERE ARE NO HOUSES OR STRUCTURES WITHIN 15' OF THE PROPERTY.
10. ALL SEPTIC FILL MATERIAL USED SHALL BE CLEAN COARSE GRAVEL WITH LESS THAN 5% PASSING THE #200 SIEVE.
11. SYSTEM IS TO BE STAKED BY SURVEYOR OR ENGINEER BEFORE INSTALLATION.
12. INSTALL ONE ROW OF 45.0 FT OF 12" HIGH BY 62" WIDE GST 6212. SYSTEM TO BE INSTALLED LEVEL AT THE GRADES SHOWN. 45.0 FT OF 12" HIGH BY 62" WIDE GST 6212 AT 10.0 SF/FT = 450.0 SF.



DEEP HOLE A (3-9-17 AND 4-3-17)		DEEP HOLE B	
0-4"	TOPSOIL AND FILL	0-4"	TOPSOIL
44-66"	ORANGE/BROWN FINE SANDY LOAM	4-20"	DARK BROWN SANDY TOPSOIL
66-90"	MOTTLED TILL	20-32"	MEDIUM COARSE SAND
		32-38"	TILL WITH A TRACE OF SAND
MOTTLING AT 66"		NO MOTTLING	
NO WATER		NO WATER	
NO LEDGE		NO WATER	
ROOTS TO 64"		NO LEDGE	

PERCOLATION HOLE DATA (3-9-17)

DEPTH-37"	
PERCOLATION HOLE 1	
12:10	1 3/4"
12:20	2 1/2"
12:30	2 3/4"
PERCOLATION RATE:	
30/45.0 MINUTES/INCH	



RECOMMENDED CONSTRUCTION SEQUENCE FOR SEPTIC SYSTEM

1. REMOVE TREES, BRUSH, ROOTMATS AND TOPSOIL FROM AREA OF SYSTEM, BEING CAREFUL NOT TO COMPACT UNDERLYING SOIL.
2. SCARIFY SOIL IN SEPTIC AREA, CONTACT THE SANITARIAN FOR AN INSPECTION AND UPON APPROVAL, PLACE FILL AT 6" - 8" LIFTS TO GRADE.
3. INSTALL SEPTIC SYSTEM AND HAVE INSPECTED BY HEALTH DISTRICT PRIOR TO COVERING TRENCHES.
4. COVER WITH TOPSOIL, MULCH AND SEED.

FILL SPECIFICATION GUIDELINES

- THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THREE INCHES.
- UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE. (THIS IS THE GRAVEL PORTION OF THE SAMPLE.)
- THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.
- THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

SIEVE	WET SIEVE	DRY SIEVE
No. 4	100	100
No. 10	70-100	70-100
No. 40	10-50	10-75
No. 100	0-20	0-5
No. 200	0-5	0-2.5

* PERCENT PASSING THE No. 40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE No. 100 SIEVE DOES NOT EXCEED 10% AND THE No. 200 SIEVE DOES NOT EXCEED 5%.

ASTM C-33 SAND SPECIFICATIONS

SIEVE	PERCENT PASSING
3/8"	100
No. 4	95-100
No. 8	80-100
No. 16	50-85
No. 30	25-60
No. 50	5-30
No. 100	0-10
No. 200	0-5

MLSS DETERMINATION

HYDRAULIC GRADIENT > 15.0%

RESTRICTIVE LAYER (30' x 32 1/2' x 3")

HF = 18.0

FF = 15

PF = 3.0

MLSS = HF x FF x PF = 18.0 x 15 x 3.0 = 81.0

MLSS PROVIDED = 45.0

DESIGN DATA

NUMBER OF BEDROOMS = 3

SEPTIC TANK = 1250 GALLON

LEACHING REQUIRED = 900.0 SF

LEACHING PROVIDED = 450.0 SF

FINISH FLOOR = 608.2

GARAGE FLOOR = N/A

CELLAR FLOOR = N/A

RESTRICTIVE FLOW

45.0 FT/81.0 FT x 150 GPD/BEDROOM x 3

BEDROOMS = 250.0 GPD (TOTAL DAILY DISCHARGE)

NOTES:

- PER TORRINGTON AREA HEALTH DISTRICT REGULATIONS, THE DESIGN ENGINEER SHALL PERFORM PERCOLATION TESTS IN THE IN-PLACE SEPTIC FILL ON SITE DURING CONSTRUCTION.
- PER TORRINGTON AREA HEALTH DISTRICT REGULATIONS, THE CONTRACTOR SHALL CONTACT A TESTING LABORATORY TO COME AND TAKE A COMPOSITE SAMPLE OF THE IN-PLACE SEPTIC FILL AND HAVE A SIEVE TEST PERFORMED. IT IS RECOMMENDED THAT THE SYSTEM NOT BE INSTALLED UNTIL THE SEPTIC FILL HAS PASSED THE SIEVE TEST.
- PER TORRINGTON AREA HEALTH DISTRICT REGULATIONS, THE DESIGN ENGINEER WILL INSPECT THE SEPTIC SYSTEM PRIOR TO BACKFILLING AND PREPARE A SEPTIC SYSTEM RECORD DRAWING.
- IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE DESIGN ENGINEER 48 HOURS PRIOR TO ANY REQUIRED TESTS OR INSPECTIONS.

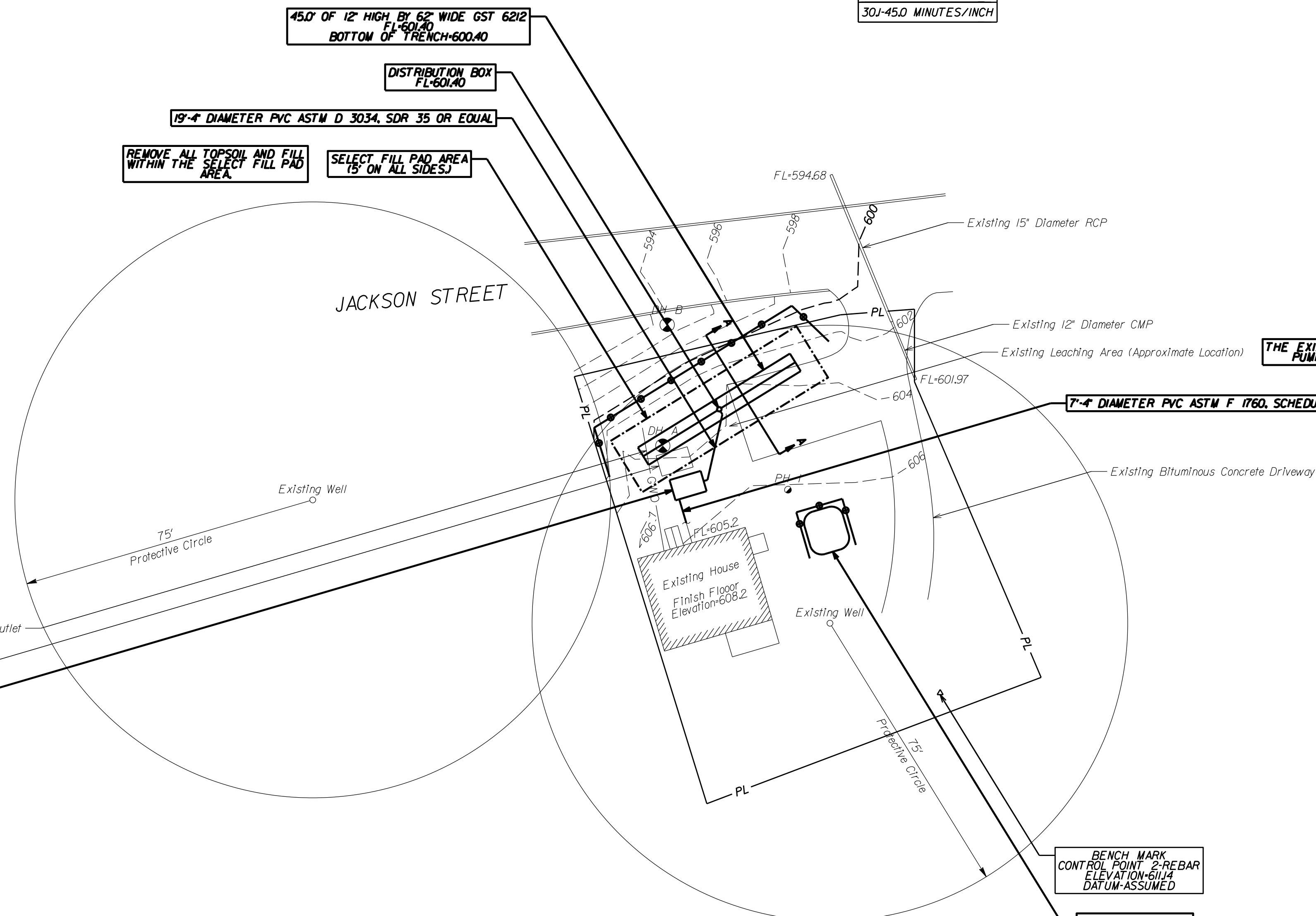
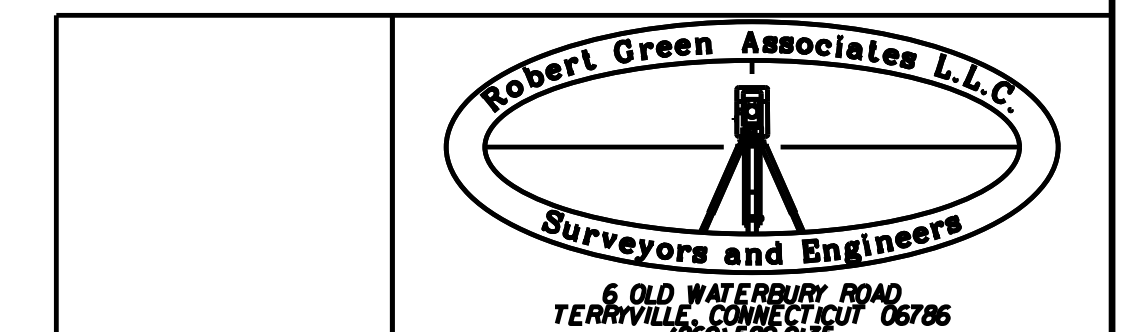
LEGEND

---	000	---	EXISTING CONTOUR
---	PL	---	PROPERTY LINE
---	○	---	SEDIMENTATION CONTROL FENCE
---	○	---	DEEP HOLE TEST
---	○	---	PERCOLATION HOLE TEST
---	GWO	---	GREY WATER OUTLET

VARIANCES REQUESTED

	REQUIRED	PROVIDED
EFFECTIVE LEACHING AREA	900.0 SF	450.0 SF
MINIMUM LEACHING SYSTEM SPREAD	81.0 FT	45.0 FT
DISTANCE TO A DOWN GRADIENT PROPERTY LINE-LEACHING AREA	25.0 FT	6.6 FT
DISTANCE TO A LATERAL PROPERTY LINE-LEACHING AREA	15.0 FT	10.0 FT
DISTANCE TO A WATER SUPPLY WELL-SEPTIC TANK	75.0 FT	45.4 FT
DISTANCE TO A WATER SUPPLY WELL-LEACHING AREA	75.0 FT	57.8 FT

JOSEPH M. GREEN P.E.
REG. NO. 0026292



SEPTIC SYSTEM REPAIR
PREPARED FOR
PAUL DUDONIS
294 JACKSON STREET
THOMASTON, CONNECTICUT
SCALE: 1"=20' JULY 6, 2017